



# DILIP RAJEEV

CEO & FOUNDER, SCHONWEISS. AUTHOR. INDEPENDENT RESEARCHER.

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## EDUCATION

**Bachelor of Technology in Computer Science  
and Engineering**  
2004 -2007

Amrita Vishwa  
Vidyapeetham University,  
Coimbatore, India.

## SKILLS

Software Design  
C, C#, PHP, JavaScript & Front End Web Technologies  
Problem Solving Heuristics  
Data Science and Machine Learning  
Applied AI  
Engineering Management  
Algorithms  
Writing Skills  
Analytical Skills and Research Oriented Skills

## PROFILE

Highly skilled in problem solving, and programming. Business management experience. Author of over a dozen books, independent researcher, and autodidact.

## WORK EXPERIENCE

### Software Development Engineer, 2007-2008

Microsoft R&D Pvt. Ltd, India.

Developer at Microsoft R&D, Hyderabad, India.

### CEO & Founder, 2011 - 2021

Schonweiss Software  
Solutions Pvt. Ltd.

Involved in design and development of sophisticated apps. Designed training programmes for software developers.

### Author, Autodidact, Independent Researcher.

### 2010 - 2022

Author of over a dozen books. Including on the origins and symbolism of ancient Chinese. Translations from ancient Sanskrit. And books on ancient philosophy and symbolism.




March 13, 2008

**To Whosoever it May Concern**

This is to certify that Mr. Dilip Rajeev was an employee of Microsoft India (R&D) Pvt. Ltd from June 04, 2007 to March 12, 2008. He was designated as Software Development Engineer during his tenure with Microsoft.

We wish him all the very best for his future endeavors.

**Sincerely,  
For Microsoft India (R&D) Pvt. Ltd**

  
**Rupaparna Sarkar  
HR Generalist**

# Personal Statement

Dilip Rajeev

The easiest way to convey interest in a topic is to discuss ideas in the field. Therefore I have endeavoured to discuss ideas of a new approach to mathematical physics of own discovery here in this essay. That makes this essay a little lengthy, yet the discussion leads into outline solutions for ideas as solution for the time dilemma in QM, a new approach to a generic special relativity integrating QM and relativity, pure math as physics itself, what forces are, do magnetic monopoles exist, what magnetism fundamentally is, a new view of particle physics, what is the view inside a blackhole singularity, what the wavefunction actually is, and virtually a plausible outline explanation of all of physics. I urge the reader to kindly suspend their doubts and read the essay!



Stay true to the dreams of thy youth,”

says a Schillerian maxim. Math, Physics, and problem solving has been amidst my deepest interests - to as far back in my youth as I remember.

I ended up pursuing a career in Software development. This had mainly to do with the structure of education in India, where due to various reasons, the better educational institutions focus on engineering fields. I went on to found a firm in 2011, that focused on education and software development,

All through the time, I found myself increasingly drawn – by a desire to understand the universe deeper – into studies of various fields. Ranging from symbolism, the origins of language, to how thought gets structured into forms of expression, thus philosophically exploring the origins of the way we understand the world and so on. As my research, fuelled by own desire to understand things, progressed, a few of my ideas got distilled into books I wrote. A few of the over a dozen books include, The One, Neuroanatomy, And The Origins Of Chinese Writing (ISBN: 979-8721661303 ),The Great Book of The Dzyans (ISBN: 979-8619747386 ), On Schiller's Ode To Joy (ISBN: 978-1724905727 ), Random Thoughts On The Shuo Wen ( ISBN: 978-1312014442), Zen ( ISBN: 979-8790560392).

I had made a decision in those days, to spend my days in an autodidactic mode than in the artificially normalized routine of working on a simple career. I could have my own ease, studies, growth, and evolution as priority, and not live to fulfil an artificial external ideal, of taking up a career after taking a degree and focusing on forms of success which would all be applauded by the world, yet would feel empty to the individual, if not own interests. And further, I deemed such a spending of my time a waste of days, as far as study, growth, and auto-evolution of myself as an individual is concerned. Days in the jouissance of discovery.

At the software development firm I founded, Schonweiss, I had engineered apps as, <https://ia801404.us.archive.org/10/items/schonweiss-an-outline-and-introduction/Schonweiss-%20An%20Outline%20and%20Introduction.pdf> , and perhaps the world's first social media app that would have driven serious discussion of various field – a place where

people of could meet based on interests, and run projects, have discussion rooms, etc, and display the best of their works. A prototype demonstration video is online <https://youtu.be/OGehEhtRoBM?t=268> (Schonweiss, Ideatter). Due to various personal reasons, including that the environment in India were not ideal for the growth of the business then, I decided to set aside the firm, and not take up investments. That, as a strategy, would immediately allow me a greater freedom of days.

**In authoring,** I were driven purely by a desire to understand the fields I explored and I never drew much attention to the results of it. Attention from the world never appealed as much to me those days as the world said it ought – and I treasured the freedoms of anonymity. A few of my books were put out anonymously, even( for instance, <https://bit.ly/DEVAZ1> , <https://bit.ly/euklid1> - where the first name is in the copyright page, and a few other books I wrote but didn't bother to officially publish, is on <https://archive.org/details/@diliprajeev> )

Though, I stumbled upon that one of my books ( D. Rajeev, Chinese Ideographs) were referenced in an article published in the Frontiers of Language and Teaching (Gender in Written and Spoken Chinese Language: When the Words Are Masculine and When Feminine? Katarzyna Bańka, University of Silesia, Poland). And I also remember that an article I wrote shortly after I published a book on the Phaistos Disc, were published on a popular website. In the particular article I gently refute a claim of decipherment of the Phaistos disc from Dr. Gareth Owens, and John Coleman, professor of phonetics at Oxford <https://www.ancient-origins.net/news-general/new-research-suggests-recent-phonetic-decipherment-phaistos-disc-implausible-002338> , <https://bit.ly/faezztazz> .

A few the works, for instance The Aesthetics of a Nation, were done for the purpose of social engineering by driving free downloads through ads, on the books, and allowing the information to engineer society over time. <https://archive.org/details/aezthetkz-of-a-nazionne>, PDF: <https://bit.ly/AZED1> . In fact generating downloads for these books for social engineering is something I have always been doing - the particular PDF has over 100k views on the internet archive alone. Another example of a short text written to give the reader a view of Zen – and also, in a zenze, for social engineering, to nudge society to a greater view, is, <https://bit.ly/MATHEMATICELLEZEN> .

I had even set out to author popular books on mathematics, one such project abandoned to focus on deeper philosophical explorations were, <https://bit.ly/mathmusingswithwinnethepooh> .


During the phases of self study, I aimed for an overall understanding of different fields – from music theory, to mysteries hidden in ancient art and language, the theories of the alchemists, and so forth. I studied Ancient Greek ideas and the discourses of Epictetus, the Tusculanae Disputationes of Cicero, the idea that the study of logic in the western world were plausibly in this era from the Stoics – who systematized it into a format virtually adopted as such my modern day academia. Yet, I found that origin purpose of the study of logic were spiritual evolution, and its application were aimed at Eudaemonia. I spent time exploring books I never found time to read in reasonable length, and even in skimming the first few pages of The Lucidarium of Marchetto of Padua, I found a view of music – and that a few ratios would paint a world, emotions, even visuals. I understood the principles of composition, and in passing did a few amateur compositions as to demonstrate to myself, I could paint a world with a few numbers (notes, which are just simple ratios) – for when these notes listened to with a earphone do evoke the ideas of a world it is meant to evoke, a drunken piper <https://www.youtube.com/watch?v=wbYpGzMacOI> , a magic carpet trying to lift off [https://www.youtube.com/watch?v=HfKZFL\\_opKc](https://www.youtube.com/watch?v=HfKZFL_opKc) – which were pretty much the state of my independent researches, or even the emotions of two lovers separated – one distraught, the other serene <https://www.youtube.com/watch?v=vXcEhqYzL9k> .


Music were an early hint that the world is purely mathematical.

One of the set of discoveries I engaged, systematically, while in the authoring on symbolism days, were in my self published book, *The One, Neuroanatomy, And The Origins Of Chinese Writing*. Where I say I put “ forth the idea



that all previous theories of the origin of Chinese writing, is false. And, that their origin lies in an ancient theory of neuroanatomy.” I had discovered and demonstrated in the work, that the entire field of Chinese symbols had its origins in neuroanatomical symbols – and not pictographs of things in the world, as thought by both the traditional Chinese and modern Western academia. For instance, the Chinese

character 又 whose ancient form is as , is thought by Sinologists, to this day, to have depicted pictographically a hand. I point out, and the only individual ever to do so, that it is the form of the dorsal root nerve in ancient forms, together with the dorsal

root ganglion – in forms depicted in ancient scribbles on tortoise shells, as . Anthropomorphic form, and world-form, as neuroanatomy-evolved, and world processing, and associated philosophy blended profoundly in the ancient writings of the Chinese, in a now lost symbolic language. In that text, I demonstrate the whole set of Chinese symbols, and the units, the radicals, so to speak, is an ancient set of neuroanatomical symbols and symbols of associated inner energy transformations. The book pretty much ends the mystery of what the origins of Chinese writing were – and in ways ends different aspects of the field of Chinese etymology – especially the foundations of the whys of the symbols – which has been a mystery not just to the modern academia but even to a few thousand years of Chinese civilization itself.

In other books as Random thoughts on the Shuo Wen, I explored and brought to the fore, the lost mystical language of the ancients in its profounder mystical aspects. In the book Temple of man, French Egyptologist Adolphe Schwaller de Lubicz hints at a profound symbolic sense to the ancient Egyptian language which makes temple writings difficult to coherently read even today, while plebeian writings make easy sense.

When I had given my interests in philosophy, language, symbolism and other fields a satisfying attention, a need for a greater degree of precision in understanding the world were what I felt – greater than what the apparent vagueness of philosophy alone would allow.

Even though I use the term vagueness above, philosophy in its true form is an exact science, and proceeds as Hegel points out in the Lectures on aesthetics, from the system's own necessity. For instance, I could found the philosophy of physics on the idea that the world evolves from a void, and the idea the void necessarily voids, which is the law of symmetry. The law of symmetry together with the ability of the system to generate a manifold of spaces, explained later in this essay, forms the foundations of the philosophy of the world, physics, and its philosophical expression is arguably no less scientific nor accurate than expression of ideas in a field of the empirical sciences. And philosophy often transcending the errors of the empirical sciences, is perhaps a even higher approach to understanding the truth.

Yet the art of expression of knowledge, finds a different ideal in mathematics. Where the symbol and its pure forces, ought ideally take on the place of the words. Initially itself, in my foray into symbolism, I had the underlying goal, of gaining familiarity with the word and the symbol. "Words and magic were in the beginning one and the same thing, and even today words retain much of their magical power," says Freud.

Just as words and their magic enable unveiling knowledge in philosophy, the symbol and its forces, the associated magic, elevate the approach to a different art in mathematics.

Interestingly, a few centuries ago, mathematics were described as an art, in Europe, and not as a field of "science."

I felt my studies had prepared myself for the endeavour.

And that made me turn a serious attention to mathematics. I enrolled for a graduate program online at Emporia State University in 2020, did two graduate courses in mathematics – one on Mathematical Proof and another on Complex Analysis, completing both with over 90% in grades. I had to withdraw from the third course, in Computational Algebraic Geometry, due to time management issues that arose during the Covid era – even though the material of the initial lessons, I did find interesting and easy enough.

I, then, again turned to a serious study of mathematical philosophy.



Again ,that I set aside time for study and discoveries on own – proved a great advantage.

What mathematics itself is, and the way it emerges into the human awareness, and at the same time seems to explain the outer world as the language of physics, began to capture my attention. I explored thoughts of both western and eastern philosophers, from Grassmann who described mathematics as “thought studying thought,” to Kant who describes space as an unalterable configuration.

Philosophy, I found, definitely leads to an accurate view of the world. For instance, the Kantian notion that space by definition is a configuration that is not altered, leads one to necessarily assume alterations occur in quantum jumps, in time. As a particular state of space is – a particular state. To alter it requires quantum alterations in a three dimensional time, I would argue. And from there I would lead myself to ideas such as the quantum superposition we see is plausibly a set of states in a hyper-space, projected as a set of discrete three dimensional time configurations, and three dimensional space configurations, in the dual sense. The world by necessity of the philosophical

“

*A year or*

*so ago, while Philip Candelas (of the physics department at Texas) and I were waiting for an elevator, our conversation turned to a young theorist who had been quite promising as a graduate student and who had then dropped out of sight. I asked Phil what had interfered with the ex-student's research. Phil shook his head sadly and said, “He tried to understand quantum mechanics.” – Steven*

*Weinberg, Dreams of the Final Theory (2011),*

argument of Kant, is quantum, and can only undergo discrete alterations.

The eastern traditions offered profound insights into their explorations of reality as well. Nagarjuna for instance argued that an atom – in the sense of a finest indivisible perception – does not exist. For, if such a perception existed, it still would have two views – a left side view and a right side view, thus a further decomposition of perception from the finest possible perception. Thus negating the idea of a finest perception, if one assumes a finest possible perception, for the definition of an atom and that such an entity – an atom – exists.

I were through my studies and auto discoveries led to the possibility of awareness-collapsed spaces - dimensional spaces as existing. Not “ particles .” That – this idea might be underlying the wave-particle duality, where a withdrawal of awareness results in a higher dimensional evolution of the vector space[to be understood in this view as a manifold of spaces in the sense of dimensions within dimensions, an idea touched upon later in the essay in slightly greater detail], and a projection-selection when the awareness projects the system into this particular dimension. This also would deal with the Nagarjuna view, for dimensional collapse into a zero dimension would result in a finest possible perception – and there is no left nor right in the zeroth dimension.

I would, even having to digress as I need to do so, touch upon the idea here that the Dilipian manifold of spaces that I talk about, is a set of dimensions - Nth space from N-1 dimensional surfaces, all with a shared core N-zero structure, and symmetry itself is at the foundation of form of every Nth dimension. It is operations on the zero that generate this manifold. And thus is a algebraic-operator-topology space, different from the usual idea of a continuous self existent space in itself with its geometries.

There are significant differences from the usual idea of a space in mathematics here, as it is awareness driven in its evolution, there is an inherent spin drive, and spin beyond a quantum threshold, analogous to the velocity of light, takes the awareness to a hyperspace zero, and so forth. Which is somewhat the idea of the physics of a hyperdrive technology as well.

# Mysteries unfolded.

An

underlying mathematical artifact, and its algebra is both mathematics and physics. The simple insight would put to rest the debate of what is mathematics and why it ought explain, rather, be the machine of physics. Entire degrees and thousands of papers have been devoted to attempting to understand what is mathematics – yet I seemed to have arrived at a crystal clear solution.

The awareness  
driven

# artifact, what I call the

**Dilipean N-0 artifact** and its symmetries are the laws of physics. Its algebra is math. Newton's third law is a symmetry law, first law states the collapse of which dimensional planes is when the 3<sup>rd</sup> law symmetry is observed. The quantum spooky action at a distance is again nothing but symmetric evolution of vectors on one of the N-0 planes of the awareness driven mathematical structure, prior to a collapse event on the manifold, interpreted as the appearance-measurement of a particle. The mystery that baffled the best of mathematicians, physicists, Einstein, and Feynman, and therefore called spooky to this day, seemed to have not so difficult explanations once the underlying mathematical structure is taken for the that which drives physics, and its algebra and symmetries taken for the language of physics - math. Well, that duality disappears – math is physics, and physics is the math of the N-0 artifact. And phenomenon, the awareness-interpretation of the awareness driven N-0 mathematical artifact.

Special relativity, for instance is again symmetry – a dot product invariant across symmetric spaces, a temporal N-space, and a spatial N-space. The present formulation of it is on the  $k=3$  surface of the N-manifold. A trace invariant on a hypermatrix that represents this manifold along with higher dimensional symmetry invariant is the true representation of general relativity in my, again, highly humble, opinion. As space and time di-furcates preserving an invariant structure on a plane of the manifold - a dot product sum invariant, and ultimately along the higher dimensions a trace invariant, the speed of light within a universe (within this 3D space, for instance) alters, or, theoretically can alter [if the di-furcation is different], and as it would affect all measurements, is imperceptible in the laboratory, and perhaps perceived in the awareness, to put it lightly, as days going fast and slow.

Instead of the term speed of light the rate of spin-geodesic scan would be apt. Again instead of time in the usual sense.. a geodesic spin scan rate in the conjugate space could be introduced – ideas that could go into the a formulation of a QM that would

account for special relativity, for special general and n-order relativities, in fact. An operator topology scan geodesic is what is suggested here. This scan is what appears as spin. And spin segments exist superpositioned – in conjugate space (time), and in space.

Further questions such as if all galaxies, have a singularity in the centre – is easy to answer. Something that occupied Stephen Hawking and experimental physicist with no accurate answer to this day. In the N-0 math, every perception unit is a N-0 algebraic structure, the centre of which is a k-th order zero. Thus from atoms to quantum systems, all evolve on a singularity- the structure of this singularity is different based on the order of the zero – for instance, a planetary blackhole is different geometrically from a higher order one, a galactic black hole. A hyper spindle that would need to run through all these N-0 forms, explains ideas as why galaxies all seem to rotate at the same rate - as seen in present day cosmological research – yet, with no easy model to explain the why of it in theoretical physics. The difurcation of spin at different planes why different rates of spin is observed in lower dimensional structures. At the 8<sup>th</sup> order space there seems to be an enfolding, generating a perception analogous to water, which probably as to do with perception of an 8<sup>th</sup> order geometry as oxygen, atomic number 8, and the at de dual 1-1\* space, the two hydrogen perceptions of atomic number 1. Mythic traditions, Eastern, Mesoamerican, Greek, all have mythology of a water space as the origin of the world.

Toward the end of this essay, I present a slightly more detailed idea of what the n-0 artifact is.

This inner and outer structuring of the perception-processing-apparatus, which is the universe-form itself, would explain why the neural structures resemble the galactic structures. It's a hyper thread in processing of the world form that the human is. The galaxies exist not purely "outside". The DNA is vector code. And there is galactic DNA, earth DNA 5D, and 4D processing of surface elements of which is the living forms of the planet. The 4-coded DNA could reflect 4D processing. The Solar DNA is 6D, and thus the 6-carbon cycle forms, the tendency to study time in cycles of 12( 6\*2, that is – along with the dual spaces of the 6 dimensions) in different traditions, and so forth.

Here I do step outside the present day views, for – for there is no reason not to, no reason not to step into the purely fantastical even, if, finally a reasoned, unifying view emerges therefrom. If the Draco reptilians emerge from the Draco star system, that is the nature of the star – DNA of that system. The planetary world-DNA, and the

anthropic DNA, the form of the Anthropos with the 7 dimensional processing cores, the 7 chakras, is the form a hyper thread processing the world DNA in 7D aspects. The 8<sup>th</sup> dimension, the water spaces, somehow decoheres an integrate perception – perhaps due to the high degree of symmetry of the space. The so called organic forms of the world are anthropic DNA differentiated. If there are no snakes in Ireland, it is not the fantastical randomness of evolution - it is the nature of the psyche-DNA and

the associated field. A foray into the **fantastical** and the mystical enriches the reasoning soul, often – the very least.

In Zen, they speak of a space like time, and a time like space. These symmetric spaces, spin acting as the processing drive, also offers explanations as to why the form of  $\langle \Psi^* | \text{Op} | \Psi \rangle$  appears in quantum physics, and the very core structure itself is a form of spin-processing and thus the appearance of the matrix dynamic in the math - the nature of dot product formation is for instance analogous to two systems in spin – forming-summing an intensity. Further in my early idea, it seemed – forces arise due to different orders of entanglement – and there are not just 4 fundamental forces, there are **N order forces**. Just as there is N-order relativity as earlier suggested. And they all thus fit in one single unified model.

The time dilemma in quantum mechanics arises as spin di-furcates into the  $\Psi$  and  $\Psi^*$  spaces, which then gives rise to special relativity. In an authentic quantum mechanics formulation, this **Dilipean di-furcation** needs to be addressed. There is a pure hyperdrive time on a plane, the spin rate of projection prior to the di-furcation on the N-0. This accounts for the notion of difference in the idea of time in the theory of relativity and in quantum physics

There is no fundamental properties, as mass, charge, magnetism and different sets of particles and fancy particle models needed. **It is the inherent spin and its projections on**

# the N-0, that appear as particles.

The fundamental  $k=1$  plane of N-0 manifold, what the ancients might have viewed as the Orphic egg, is the  $1-1^*$  axis that gets projected, generating a unique axis of projection. The interpretation of this spin axis in dimensional enfolding-embedding is charges, polarities in magnetism, etc. That is to say, a particle's spin axis is a unique direction - And cannot be thought of homogenous with the other dimensional axis in its properties. The earth's north pole is locked in a quantum -alteration sense to the pole star - there is no way all that rotation and revolution and what not will keep the axis locked on to one star over a thousand years, or even a year or a month , or a week for that matter.

Well, I encountered an article after having arrived at the conclusion that gravity, mass etc., as other forces is - is also just associated with an of order of N-0 spin and its directions, and the spin projection intensity. While my early ideas seem starkly different from today's theories of gravity, what the researchers found in their experiments seemed affirming of my early views. " To create negative mass, the researchers applied a second set of lasers that kicked the atoms back and forth and changed the way they spin. Now when the rubidium rushes out fast enough, it behaves as if it has negative mass. The article notes, "Once you push, it accelerates backwards," said Forbes, who acted as a theorist analyzing the system. "It looks like the rubidium hits an invisible wall."- Physicists create 'negative mass' by Eric Sorensen, Washington State University.

Further, fundamental ideas of today's physics seemed off. The twinkling of stars attributed to refraction and what not is off. Stars would get thrown all over the place, and the spacetime warps encountered in the intergalactic journey of the photon and even the atmospheric distortions as the light travels through the earth would throw the starry-spot all over the skies. In fact, stars zoomed in on amateur Zoom lenses, high Zoom cameras, telescopes appear as a N-0 spin artifact. <https://www.youtube.com/watch?v=NM1xqnjbz7Q> . The spin cycles are visible. The permutations of spin cycles getting selected in the Dilipian-quantum sense.



Disappearing stars have been reported in usual astronomy and they are just higher order quantum artifacts.

The skies are in fact the amplitudehedron from which the earth-space were topologically projected as a fifth order zero. Poetically, the stars are the fate-vectors of the observer, the possibilities of scan in quantum superposition. The planet a dimensional subset-scan of a star system vector set. Stars are in another sense temporal superposition, of a spin scan of a higher order galactic core. They are literally if on the same temporal spin geodesic-element array as the Sun-earth scan point, one of the possible future timelines of the Sun-earth. The ancients might have had an element of (topological) reasoning beyond superstition in saying, the fates were written in the stars. Greys as some say could be humans of one future timeline – they leaned into the purely cerebral and discarded as nonsensical the wholesome fantastical and the mythical and thus fell into the that form of a DNA potential pocket – is one of the possible fantastical myths about the greys.

In my physics it seems all that is needed is a hyperdimensional higher order analogue of the  $S_+$  and  $S_-$  operator in quantum mechanics, which are associated with the polarities of the orphic egg, the  $1-1^*$  axis. And so on.

The fundamentals of math as well is just,  $S_+$ ,  $S_-$ , spin, the zero and the notion of an intensity. The number system is quantum, decimals arise as dimensional enfolding is possible. Irrational numbers are not scanned to the infinite decimal by the universe N-0 machine either. Spin proceeds generating operator-orbital scans, and also vertical scans, and is as well, in the Zen zenze, the breath. The order of the vertical scan dimensions could be of the order of  $1/\text{Planks constant}$ . Spin-Intensity on collapse generates the perception of colours in physics. If the reader is surprised by the idea – that is the all of the elements of math and physics, and if questions arise as – where do the notion of operators such as say the differential operator arises, I refer the reader to a few paragraphs ahead in this essay, for a few additional ideas, and vague answers and a vague view of the initial, humble, discoveries of Dilipean physics.

## The foundations of today's physics and mathematics seemed shaky.

For instance, to develop a quantum[discrete by definition of the word] physics on a continuous

“real” space is absurd. And also given space configurations seems to alter in rather imaginary ways in experimental physics. Assuming the presence of a continuous space in integrating over the wave function space is ridiculous and an absurd assumption if – time, and space itself is quantum. And especially when experiments tend to strongly suggest the physics-drive and the form of the world is quantum.

Instead, an operator generated quantum space is at the foundation of perception. I guess a non-quantum geometry generated by groups were suggested by one of the prominent mathematicians of the last century.

That particles is just the N-0 artifacts and its spin-projections also explains why group theory, which ought deal with aspects of the algebra of the mathematical structure of de N-0, appears in particle physics.

Other problems in mathematics and higher dimensional math seemed to find its solutions on a shaky (higher dimensional)ground as well. For instance, The problem of finding the volume of a higher dimensional unit-sphere, the volume of a unit N-ball, which, it turns out, tend to zero as N, the number of the dimensions tend toward infinity. In setting up the problem, the assumption is made that space is uniformly distributed and has the same measure in all dimensions. Then, the final result says it is compressed out of the unit N-sphere into the corners of a cube whose faces are tangential to the unit N-sphere, as N takes on sufficiently large values. Then the setting up of the integral assuming a uniform measure in higher dimensional space, and ending up with the result that it is not so – the Dilipean Higher Space Paradox - that the higher dimensional space and its measure has strange properties – is a reductio ad absurdum of the core of the whole of the field of mathematics – of integral calculus in its natural extension to higher dimensions, the very least. A resolution of the paradox within the framework of present day math defies my highly humble efforts.

I'd like to point out that my insights were **not mere fantasy**. What is the wavefunction – in the new Dilipean physics it is a higher dimensional geometry, in spin, along with its reflected dual form( the why of the wavefunction form and its conjugate as well), the surfaces of which are in superposition; a selection event is a

projection into one of the surfaces, and a fall into a lower dimension. Strangely, as unconscious symbolism always enters these discussions, *the projection operator in quantum physics is associated with measurement – even though as usual the physicists do not know what they talk about in discussing quantum physics*. Measurement, which results in the particle state observed is only a projection onto a lower dimensional surface of the

awareness processing drive on the N-0. This. the **Dilipean view**, fully does away the wave-particle duality mystery.

The way they understand the wave function today is different and simplistic and they have no idea finally what the wave function is. It is a higher order vector set – a spin artifact in evolution. The theory of vectors in my idea needs to be of such a form that vectors embed lower dimensional vectors. Electrons are 2-space processing N-0 cores. Well. They are not particles as such, just the operator processing of 2-space under the world-spin. Photons perhaps 1-space. The geodesic processing of space. A 0<sup>th</sup> order spin phenomenon, the so called God “particle,” also definitely exists, and the particle accelerator and the Nobel Prize were not needed to say that. Particularly since it is not “a particle,” the field of particle physics were unnecessary. Needless to say, I do not think it is to be described as “a particle,” that “gives mass” to other particles, etc., or associated with a “Higgs field!” Mass for instance is not a fundamental property – the notion of an N-dimensional dot product intensity N-D strace on the N-0 is a fundamental property that displaces the fundamentalness of mass as well.

The **spooky action at a distance**, is as there is no distance, and distance,, is merely an interpretation of an N-0 spin-scan intensity. Every collapse is preceded by the availability to the awareness of a set, in the higher dimensional sense, of symmetric spin evolution of dual symmetric surfaces – and measurement event projects a symmetrically held pair. Thus projecting forth the **spooky** action at a distance **illusion**.

That distance arises from the interpretation of orders of N-0 spin is hinted at that in anthropic scan of the horizon , one rotates the eyes, and in higher order rotation the head, to scan a greater distance. If the measurement apparatus of the human were some random biological evolute, then experimental physics would

have no foundation, for it ultimately rests on the random evolve sensory apparatus' measurement principles, to set up the experiment, gather, and process data, and at the very end of a series of "highly precise" instruments designed by ideas of the random evolve sensory, and the "dunno what's its origin" math.

While wavefunction is a higher order vector geometry and thus a higher order space time geometric manifold is what my vague ideas of its math in the early stages of my discoveries, says - Frontiers of research in today's physics also speak of hypothetical ideas as an "*amplitudehedron*( not that it is my new preferred spelling for *amplituhedron* - I use the word in this essay for ideas different from what is suggested by *amplituhedron* in today's frontier-physics )" as a geometric artifact " outside of time", etc. Well, that is the wavefunction as a higher order vector geometry, and I guess due to all the confusions in nomenclature they unfortunately fail to see it that way.

But, then in all those insights I would stay somewhat on the plane of philosophy, unless I develop the algebra, a universal one, with precision.

Thought itself is movement of awareness on such an artifact, and thus the view of Grassmann in *Die Ausdehnungslehre*. Robert Boole, labelled his mathematical work, "Laws of thought. " The same definitely turn out to be the laws of nature.

These two works and even Newton's writings, is plenty evidence, once mathematicians were philosophers. Boole starts with ideas of signs, words, interpretation in thought, operations of thought, the signs compounded under these operations and so forth.

Speaking of the idea of a universal algebra, and its rules in symmetric construction of space on a  $N-0$  manifold( a term I use to describe my idea of the mathematical structure underlying phenomenon) , and that as all of physics as well, that I suggested, Structures such as groups and rings reflect aspects of such an underlying  $N$ -dimensional artifact. Groups play a role on particle physics for no random reason. A true calculus of  $N$ -space is based on its projection and collapse algebras.

I would at this point in my essay gloss over what I imply by the term an  $N-0$  artifact. A 1-D vector exists in a 1-D space. A 2-D vector in a 2D dimensional space. Under mathematical operations on the 1-0( the first order zero), plausibly a 1-D vector and

its analogue in a conjugate space, union generating a 2D structure, which exists on a 2-0( the first order zero), space. And so on.

I am yet to work out the details of the mathematical artifact – and one purpose of my wanting to systematically engage mathematics in a field and environment of intelligent discussions is to hone my skills of discovery – of translating insight into de symbol – and of allowing the environment to spark ideas in me – as it is discussions, and engaging problems that spark insights and ideas. A few seemingly fantastical, yet profoundly insightful, ideas were sparked as I wrote this essay, for instance.

Even though I had arrived at notions of the N-0 math on own- independently, that is - such a structure, interestingly, even seems to have been studied by the ancients, as it seems, from Bhaskaracharya's Bija Ganita, which speaks, in the title of its second chapter, as zeros being of different orders. " Sunya Sas Vidham", " Zeros are of 6 types (in the aware anthropic-frame perception, which as per the ancients had 6 cores, what they called energy centres, chakras [literally, spin-centres], the 7<sup>th</sup> order cores are galaxies, and which then seem to enfold into a universe, and mystics described the experience of the 7<sup>th</sup> chakra as a sky full of stars, as in the Coldplay lyric.)" says the ancient Sanskrit text. The text starts with urging the reader to understand the way the *three* emerges from the *four*, It's clearly speaking of dimensions, and written in an ancient language whose technical terms are now not deeply understood. And that has led to the academia translating the statement about the three dimensional reality from the four as asking to subtract the number three from number four. It's difficult to assume such a serious treatise as the Bija Ganita would take up a trivial topic as subtraction of two integers.

In discussing all that, I wanted to convey a feel for the nature of studies and research I have been driving myself through, out of a deeper desire to understand phenomena.

I am also convinced that mathematics and physics are one field – the universal algebra of the N-0 awareness driven drive. Without profound insight into the awareness driven N-0 artefact and its algebra a true theory of probability even is impossible. For instance,

assume the Monty Hall problem. Of course, logically, it is easy to see the result in assuming say there were a thousand doors. After initial selection, there were two sets – one which the participant selected – and another set in which there are 999 doors. The host opens 998 doors in the other set that are empty. Clearly it is wise to shift to the set that had a 999:1 chance. The philosophical dilemma is that – what if the host opened the 998 doors – then everyone went for their tea. The tea were slightly laced, and all forgot – including the viewers – which of the two doors left unopened now were selected by the participant and all associated information were wiped away. That is – we pause the experiment, wipe everyone's memory – and then resume it – then it cannot, mathematically, be said there is an advantage in selecting each of the doors. The anthropic awareness element defining the phenomenon, and the underlying reality, is *klaar*. And as the experiment is occurring in physical reality, its reality is quantum, similar to the superpositioned fates of the Schrodinger's cat. It is to say, the nature of the N-0 artifact awareness drive is physics and prior knowledge of it is needed to arrive at an accurate theory of probability in mathematics. It is the knowing in the awareness that altered the problem configuration, just as particle configurations are held in the awareness in quantum physics.

This view of the monty hall puzzle might initially seem simplistic, yet.. do read on. Simplicity is the seal of truth, the Greeks wrote. The very mathematical description of reality alters with the human awareness, and the underlying information element. In the situation where no one had any memory the mathematical description of reality is the 1:1 chances on each door. And that is the probability – not some lack of information in the problem statement making it 1:1 – for the observed state in quantum physics is the observer held state. If there is no observation, the Schrodinger's cat is not dead not alive. The host and guest and all do not now know, even unconsciously, in the Jungian sense, where the gift is – the gift IS in no defined where between the two unopened doors, and is in superposition. What the earlier experiment with memory did is define a basis of measurement of this superposition wavefunction which were indeed 1:999 skewed, on which the gift wavefunction gets measured when non-held by the host –

and then, when the guest makes the measurement that collapses the probabilistic wavefunction, the memory of the host and of the world of the gift having been in either of the boxes is a timeline artifact. . This instantaneous unfolding into a hyperdimensional spin set, and generation of the wavefunction superposition state is a necessary phenomenon if we are to allow the guests 1:999 skewed measurement basis to be at function, and the experiment be probabilistic in the true sense of the word. For, if the gift is in a known, measured location, and is held in measurement, there is no quantum probability involved in the experiment. Just as if anyone knew the cat is dead or alive, there is no probability theory applicable to the Schrodinger's cat. Just as with any measurement in quantum physics. Mathematically the measurement basis has to receive a wavefunction – and not a collapsed-measured-observed state – if probability is actually at play in the particular observer-set timeline.

Indeed, reality evolves instant to instant, in the awareness selection tendency of a intensity map, in higher dimensions, called probability amplitudes of the wavefunction. Now, if awareness had no play, then every arrow would only hit random positions on a wall, no matter how well aimed. At least, parameters of a something as a gaussian distribution is altered with the N-0 awareness-drive.

The theory of probability, just as the theory of mathematical space is founded in physics, which in turn is nothing but the algebra of the awareness driven N-0 Dilipian artifact.

The Monty Hall problem, to explain the idea a bit further, I guess one can plausibly approach it in the (at present hypothetical) ideal sense by setting up a basis of observer vectors for the participant. The Observer-vector amplitudehedron intensities shift greatly to the unopened doors in the second set as the doors are opened and the opened door-vectors get zero intensities – the intensity-norm maintained. The final act of selecting is in fact a quantum one – the host, in the observer sense, has to let to go of the collapsed state in the space, and then there is a higher order evolution of the wave function state similar to the dead-alive Schrodinger cat, the gift now could be anywhere. Note that why this is essential will be seen explained from another angle,



in the next paragraph – the host cannot be holding the gift in a collapsed state, if the guest is to measure it on the 1:999 skewed amplitudehedron.

Even though the host in the timeline dynamic would experience the vectors of memory it were in the box it were found in, its placement there upon being opened by the participant, the guest, is a projection of the wavefunction on to the amplitudehedron of measurement held by the guest- that form which has a greater intensity, 999, in the above example associated with the projection space of the second set, and 1 associated with the original selection set. The only way to avoid the dilemma of it not being 1-1 is to have the underlying awareness-information alter the experimental space as it were demonstrated in the earlier paragraphs – that if the memory of the host and the participant and all viewers were wiped – and there is no awareness-information the chances are not 1:999, and is 1:1. So one is led to the inevitable conclusion that an underlying amplitudehedron held by the participant, measuring a wavefunction, is at the defining of the new dynamic. And that the measurement amplitudehedron has to act on a wavefunction for the situation to be probabilistic, and not on a collapsed known state says the observed-collapsed state is unheld by the host as the new measurement is made. In other words the surface topology-intensities of the amplitudehedron is altered by the awareness dynamics of the experiment, and the projection in dimensional collapse occurs to such a surface configuration, driven by the intensity associated with each state of projection, the what determines the probability the awareness selects the vector.

By timelines, I imply scan segments of an N-0 higher order topology, which can exist with its own superpositions, just as the wavefunction is a set of superpositioned N-0 operator's eigenvectors. These vectors signify temporal and spatial topologies, in the Dilipean view. Therefore – the idea of timeline mechanics is suggested by the fact of probabilistic superposition that appears in today's physics as well, when intelligently interpreted.

The idea that the zero view is maintained is at the foundation of all of math and physics. In mathematics, it appears as the search for the solution  $f(x)=0$ . In physics it is symmetry in one aspect, and in the hyperdimensional sense, the zero space is where the solution is, where existence is.

In quantum physics, the operator view only allows forms that may be scaled by a hyperfield intensity at the origin-symmetric axis to keep the zero view.  $Op[form]-s*[form]=0$ . These are the basis vectors in which the wavefunction may be measured, when the operator  $Op$  acts on the system.

The form of the so called QM equation  $O[\Psi] \rightarrow A$  Set of Eigen Vector Basis States in Superposition, from which a projection, a viewed is selected  $\rightarrow New\Psi$  says the 0 view is sought in the generation of the eigen vector, the associated measurement-intensity generated in the operator transformation, projects and at the same time scales the different dimensional aspect view, operated on, to unveil the zero. What is held by the Operator matrix, needs to be balanced out, symmetried, zeroed, by the intensity-measurement -and hence the necessity of the eigen vector to appear. Only those ,hyper-field intensity scaled – thus, in the symmetric space sense – zeroable views – emerge. Such a N-0 topology altering operator drive emerges, driven by the awareness, and that is all of physics. As it starts from the zero, it is operations on the zero vectors of different planes.

In another sense, as in quantum mechanics, the eigenvector basis of a new observation, is in the null space, (or kernel) of the operator  $[\hat{O} - \lambda I]$ , it suggests a structure of a different math, the Diliplean one, where the zero has a geometric structure, and the void of an order is the mathematical gateway to a higher world. I have encountered in the idea that in ancient traditions were the view that the core of a space is the access to a higher world. The blackhole singularity has a geometric structure. So does a even higher order zero, projected the nodes of its geometric spaces is where the zeros of the galaxies appear.” Clusters of galaxies located in rich superclusters form a quasiregular lattice” , says J. Einasto in his paper titled, “Has the Universe a honeycomb structure?” <https://arxiv.org/abs/astro-ph/9711320> .

In a 2D collapsed view, these nodes of projection on a plane of superposition say on a stellar zero correspond to what are viewed on a 2D plane of collapse as planets. These nodes are separated by a complex phase and intensity on the projected plane. This and not any idea of gravitation, and random explosions and gravitational condensations, and so on, etc is plausibly at the origin of planetary phenomenon and why planets tend to appear on a single plane. This notion of a complex phase distinguishing the non polar ( the z axis, see farther ahead in the essay) axes projected on a dimensional space is a quantum phenomenon as well, I guess. “ Our Solar System is an orderly place, with the four inner planets, the asteroid belt, and the gas giant worlds all orbiting in the same plane around the Sun. Even as you go farther out, the Kuiper belt objects appear to line up with that same exact plane. Given that the Sun is spherical and that there are stars appearing with planets orbiting in every direction imaginable, it seems too much of a coincidence to be random chance that all these worlds line up. In fact, practically every Solar System we've observed outside of our own appears to have their worlds line up in the same plane, too, wherever we've been able to detect it.” <https://www.forbes.com/sites/startswithabang/2018/03/01/why-do-all-the-planets-orbit-in-the-same-plane/> . The data on the presence of Golden ratio and Fibonacci patterns in solar and exoplanetary systems suggests at geometries at play. <https://arxiv.org/pdf/1803.02828>

A singularity, as a galactic black hole for instance, as an n-order zero, has a topology and undergoes spin driven operator scan of its topology elements, and that is plausibly what appears as the so called cosmic tadpole. Even the initial framework of Dilipean math strongly suggest this ought be a feature associated with all blackholes of the n-0 order, as a galactic one. <https://phys.org/news/2023-02-tadpole-molecular-cloud-playing-black.html> . There are two directions of spin scan views possible on a singularity axis, and this corresponds to the framework of anti-commutative algebra in the scan of the topology.

The human apparatus, is in view formation, forming a 3 world from the 2 world surfaces at the dual zeroes, the dual black hole, the singularities – the eyes, in a poetic sense. The galactic blackholes are thus the eyes of the galaxy, and also geometric portals to a world of a different order. Just an N-0 collapse surface. The mystery of what is inside a galactic blackhole is a purely mathematical one, in the framework of physics and mathematics of the Dilipean system. In one view, it plausibly projects- “mirrors” the planes of the geometric universe outside. An analogous imagery is found in the myth of Indra’s net.

The math of QM, thus makes perfect sense, and its easy to see its limitations as for instance the ignoring of a plausible Dilipean Spintensity Difurcation theorem which introduces the time dilemma, and easy to see the necessity of a plausible N-0 dimensional structuring of a future Dilipean math. I, therefore, despite being, as usual, highly humble, give myself the freedom to differ from Roger Penrose and Feynman, and all the early physicists who didn't trust the math of Quantum Physics as well, and even when they were involved in the discoveries of QM failed to understand what it were about. And I am opposed to a modern standpoint which has taken the stance of those giants as a lullaby, a zero view, and standing on the shoulders of the Giants, somehow manage to entrench themselves in a refusal to seek the fundamental whys of quantum physics.

A more sophisticated quantum physics formulation would allow hypermatrices, and generation of different dimensional orders of symmetry in operator transformations. Awareness-operations associated with high spin dynamics - nearest light speed - quanate observation of charges in rotation around a core, for instance- that is high angular momentum dynamics – would be at the foundation of a Dilipean UFO drive mathematics. A UFO that moves in time, enters hyperspace. An instance of the way new operator dynamics would also unveil to us forms of measurement, and world-transformations not yet thought of.

The newly selected state is in the case of a measurement, the projection, a particle in view, is in fact a new spin processed surface appearing in perception. The wavefunction is just the higher order spaces in spin. The operators such as the annihilation and creation operators, so called, which I have admittedly not studied in detail yet, is defined by the form that allows the zero-view to be traced back – in the formation of the world processing hyperthread. An intensity-trace generated in each step, that is associated necessarily with the spin-rate, the angular momentum( as I earlier said, in the Dilipean physics idea, a spin difurcation, and an invariant – the relativistic invariant it is associated with a N-0 collapse

event, a particle-pair appearance), the frequency which multiplied by the plank's constant gives energy. This idea again drastically differs from present day views of the atom, etc. Here the atom is N-0 cores within cores, and geometric hypersurfaces. Attempts at generating visuals of the atom, or the electron all generate such imagery. Of entangled photons the imagery is as of a dual space in spin, as the Dao symbol, in some experimental settings. This aligns with the idea of what a photon is, in my theory – a 1-1\* topology.

The imaginary number  $i$  is, in the Dilipian view, to be thought of as a spin axis alteration operator on the manifold, Which acts in a sense together with something as the Dilipian  $S+$ , or  $S-$ , generating either the form of integration, or of differentiation. Integrating requires the spin-scan of a topology, a surface, and differentiation as its inverse process is associated with a  $-i$ , plausibly, indicating a flip of the higher order axis, a hyperdimensional wiring. This hyperdimensional wiring is natural to the  $i$  operator as the axis alteration propagates dimensionally – an idea, the plausibility of which is demonstrated heuristically in the frame of finding a semantic interpretation for spin identities of quantum physics, later on this essay. This needs further thought from my end, than time has permitted. Why I Say this here is even the foundations of math as thinking the imaginary number as the square root of negative one is a outdated way to approach the idea. On the 2 manifold, the  $i$  operator acts indeed to generate  $i^2=-1$ , kind of identity. Yet the interpretation and the language used prevents understanding – and one reason why QM seems undecipherable in the whys.

While Feynman has said, "I think I can safely say nobody understands Quantum Mechanics," and Roger Penrose says, "Quantum Mechanics makes absolutely no sense," I believe what I outline above, beyond a reasonable doubt is the framework in which QM is to be understood – and is something I have been working on the early stages of discovery of and is confident of evolving into a full theoretical framework – which as it is the axioms of math that is physics itself, is virtually the end of the usual ideas of physics if done well. Whether those laws themselves are falsifiable in a higher order awareness is a different question.

I would also like to add a few sentences, to give a slightly more solid foundation to what I earlier said – that nothing other than an analogue of the  $S+$  and the  $S-$  operator, along with the N-0 artifact and spin is needed in physics. One question that naturally

would arise – with a tendency to dismiss the nascent N-0 Dilipean math – is the question of what about other operators – for instance multiplication, differentiation, vector multiplication, and so on. The S+ and S- I speak of are for one different from the Spin flip operators of present day physics – though I believe they appear due to properties of the hyperdimensional S+ and S- (they are involved in the creation and annihilation of spaces, as the outer and inner products do) I suggest – and the why of the overlay in nomenclature. In an early view I have developed of the same, I would point out a few things. The operator forces, exists together with each other. That is to say, assume a set of vectors suspended on a plane  $n=k$ , of the N-0 artifact. The + operator is that awareness drive force that allows the vectors to be suspended simultaneously there, in the sense of what is quantum superposition on the  $n=k$  plane of the Dilipean N-0 manifold. Thus in usual math as well, the + operator superposition states in QM. The X, the multiply operator, again holds the vectors together, in a different way, so as to allow the formation of a higher order space, as well, as the dot-intensity of a plane. The notion of the Grassmannian product. The idea of a product in Clifford algebra. The reason is the force of X, acts differently on the two poles of the 1-1\* artifact, the orphic egg's two poles. One can see that S+ AND S- as associated with the awareness drive force-form at the two poles of the orphic egg, to poetically describe the poles of the 1-1\* artifact. One of the poles drive the outer product formation, and the other the dot product formation. One drives the generation of a higher dimensional space, with the S+ forces, and the other the collapse to a set of lower dimensional surfaces, S-, and associated dot-intensity formations. The integration (formation of higher spaces) and disintegration (disintegration of higher spaces, in forming the dot intensity) drives are inherent to the poles of the orphic egg, as is + and the product operation force X – that is to say, the operator dynamic and forces are inherent to the Dilipean S+, and S- structures. Again this could even imply all celestial bodies have their radiation due to such a phenomenon,

as N-0 trace generation, and not say, ideas as the moon “reflecting” light from the sun. Even the notion of distance between bodies, in orbit would need to be understood in terms of spin-Intensity scan of a dimensional order, at the operator-projection event.

In fact, to degress, in UFO-ology it is in the tales, that a UFO enters hyperspace at the south pole to gain access to worlds in superposition, the details of which are outside the humble scope of this essay. There are anecdotal tales of this in popular literature. The south pole and access to different worlds have been the topic of literature. The Vikings, and their higher and lower worlds are accessed on the world-axis, the Yggdrasil. The mount Meru of the eastern myths is the polar axis of the planet.

Further the magnetism is a phenomenon associated with the  $1-1^*$  axis processing, the spin drive driven processing elements of topology – space itself as operator generated in the spin drive. This space itself is what is called, again, as a misnomer, in the present day not that developed physics, the wavefunction.

That view of magnetism in the Dilipian Physics framework, just discussed, also settles the question of if magnetic monopoles exist. Well, those poles exist, with strange properties, as driving the dot product on one end, and the outer product on the other end, on super-positioned spin processed vectors. Do they exist in isolation – in the usual sense of the word isolation, the answer is an immediate no. The question of if the dual poles would, in a process of N-0 Dilipian dimensional embedding, and associated apparent symmetric breaking, in perception appear as apparent monopoles – is out of the scope of topics discussed in this essay. The magnetic axis is the  $1-1^*$ , Enfolding that, another layer of the  $S^+ S^-$  form is perhaps the charge phenomenon. Further discoveries and thought is needed to arrive at final ideas.

Entanglement generates operator topology  
elements— dimensional space generators— that generate  
vector space – space itself – under spin – while the base



vectors generated in that space, cannot be thought of as vectors in two different systems under independent evolution. This is the

origin of the

notion of

force in

# Dilipean physics.

Different orders of forces exist, and all forces, include magnetism, finds its explanation in the model. Which if mathematically codified would end physics. Again this differs from the present day models of just four or so forces , and imply that the deeper into the nucleus, say, the deeper orders of forces unveil, all topologically connected by the same generic mathematical form-principles.

To digress, the solution to the N- body problem is quantum in nature, and as force is the engaging of tensored-entangled basis vectors, in Dilipean physics, and the world topology generated therefrom, the N- body problem, the way the universe engages it, and plausibly easily simula-able in a quantum computer, is the quantum-stochastic processing of these topological n-units. Of course the mathematical form of it is tensored N-hyperthreads ( wavefunction tensoring I guess is what it is in today's QM), and the stochastic processing of its topological units. As the world phenomenon itself is not following a classical Newtonian drive, the solution is quantum-algorithmic in nature. From these the "orbitons" depending on their probabilistic fall, intensity generated from the dot product geometries, display itself as the N-body pathways. An *orbiton*, I define as a held n-order operator state, generating its geodesic.

And further questions unknown to physics such as what is magnetism fundamentally, what is charge, and so forth is immediately answered.

And all the talk of virtual force carrier particles, and then for them to interact there would be a necessity of additional force carriers, ad infinitum, is absurd and unnecessary. A lot of intellectual fuel has already been unnecessarily spent on discussions as, "Are Virtual Particles Less Real?" by Gregg Jaeger. Unfortunately, the idea of particles as building blocks, leading to the idea of fundamental building blocks, itself is off, as I earlier did demonstrate. As the fundamental building blocks still would have distinguishable sides, say the left and the right - and therefore would fail to be fundamental in perception. Only the N-0 dimensional collapse would do away the dilemma. With even wave particle duality presenting a dilemma how do they discuss the idea of "real" particles and what about the "imaginary number" always involved in modelling their "reality"?

The foundations of mathematics can only get done in a systematic way, with an awareness of the physics of this N-0 artifact, with a knowledge of its algebra. Otherwise, even seeming absurdities would need to go into forming the theories. For instance,  $1+2+3+4..$  unto infinity as  $-1/12$  is apparently a result that finds 'practical' applications in quantum physics and appears applied in prominent textbooks on quantum mechanics, in derivations and so forth. Its mathematical derivations could make 'sense.' Yet, intellectually there is a void. Fundamentally, these issues are as insufficient attention has been given to the symbolism of math itself. The notion of enumeration is founded on the S+ and S- force forms, the polarities of the orphic egg I earlier mentioned. This  $1-1^*$  artefact in generating the intensities associated with the operator evolution – the enumeration – itself undergoes evolution, in that process that appears as the spin scan. For instance, there is a axial dimensional scan, that runs in parallel with the spin scan up to a  $1/\text{Planks constant}$  order dimension. This is also associated with the granularity of radial space, the rotational space, the discreteness of  $2\pi$ . . The  $1-1^*$  itself is undergoing flips in this spin - Associating processes such  $1-2+3-4$  and so forth with the generated and superpositioned on the zeroth order zero superpositioned intensities 1, 2, 3.. etc.. expressed as  $1+2+3+4..$  the processes of this I , guess, along with the spin of the orphic egg etc- the pole flips, on the  $2-2^*$  plane and so forth, generate in aspects of the processes. a dot product formation drive sense the field intensity  $-1/12$ . In the specifics of what I say I do not attempt to be accurate - for I write , on an initial insight, and to convey an idea – a necessity of a profounder approach to mathematics and the details which I at present do not have had the time to work out, as the discovery processes bring about a great number of ideas, to be

organized, and in the early stages of discovery I find it strategic to not run into attempting final results. One of the goals of doing a math degree from the foundations is to organize my time to systematically engage math and thus hone my skills. Even simple results unveil profound ideas. For instance Sin and Cos appear in the spin projection through the N-surfaces of the manifold  $1, x, x^2..$  under the  $i$  operator spin on the  $2-2^*$ , and the forms that appear also have to do with what forms of factorization the world-processing hyperthreads of n-order can take – thus the form of the annihilation and creation operators, etc. The ways in which quantum operator forms can be factorized, etc. The Spin it self activates two different operations, one is integration, another is differentiation, depending on the direction of spin. The heuristic hints of these are as well in the mathematical forms of the shift operators of momentum and position, I guess. My ideas are in an early stage of discovery. As I earlier suggested, there is reasons to hypothesize,  $i$  is also the operator defining of wiring into higher dimensions, or rather wiring between higher and lower dimensions.

The very idea of forms such as  $Z = \{8,1,0\}$  needs profounder thought.  $Z$  and the representation-form of the set  $\{8,1,0\}$ , are indeed two different things, structures, and signs. What they share is distinguishability. The property of distinguishability. Distinguishability, in turn, arises from the geometric structure of the N-0, the set of operations that projected it, and thus its “location” in the greater operator-topology structure. Any mathematical form– include,  $\{\}$ , the Greek Sigma alphabet  $\Sigma$ , and the Product symbol  $\Pi$  - are all pure symbols that have unconsciously risen, or due the fact, the awareness-drive’s view is only a spin-scan operator-driven projection-generator artifact, and thus its projections have the element of structure inherent to the operation associated with the form. Parenthesis  $( )$  in general suggest a zero, zero-processing structure.  $\{\}$  Suggests these exist on a zero-form given an identity label,  $Z$  in the above case, the label-sign shares the distinguishability property with what it were associated – it is **instantiated by the awareness into an identity with the particular distinguishability-geometry of the N-0 topology element.** The Zigma  $\Sigma$  operator-form suggests, as pure form-force, super positioning of vectors on a zero geometry along with its symmetric duals. Superpositioned vectors in QM is represented by the  $+$ , and the  $\Sigma$ . Symmetry in emergence of vectors is foundational – for if not the view of the origin-

void would not exist – symmetry keeps the structure on the void. This is also the idea of say inverses in the theory of groups. Mathematical structures demand such symmetry if they are to reflect the processes in which the awareness-drive world is. If the principle of symmetry is falsifiable, and thus physics and ideas of “math” itself is falsifiable, in a higher order awareness is a different discussion. The  $\Pi$  product operator, the form of the spinning axis, where the tensoring-product generated hyperthreads exist. Tensoring is generated by the inherent nature of the awareness-drive, which has the  $X$ , the return of awareness-drive ‘energies’ into the zero, the **into** operator, act on the superpositioned in the awareness elements, - in the case of a generic tensoring it is on the zeroth order zero. Well, as every element of a set has **distinguishability**, it( each element) is again an N-0 structure, and one can enlist its elements, thus sets are formed out of sets – the generation of an ideal set theory is driven by these principles that I suggest here – the way the axiomatics need to be arrived at is a study on the meta plane of symbol-form-force, and the awareness drive principles.

In my new math under discovery, a generic recursive structure I label a Dilipean-Vector stands for all possible mathematical structure, any operator topology element. A separate set theory, which apparently appears as a study quite distinct from say the Dilipean vector spaces is not necessary. For instance, in the Monty Hall problem, the situation can be modelled as perception vectors. One set represents the doors and the other two symbols that the perception of the gift’s projection into a space or not,  $\{0,1\}$ . The tensoring of these two sets and its attribution of a vector-intensity, and the norm of the set as 1, in the sense of today’s math, is the representation of the problem. In probability theory, the norm is a 1-norm. The reason why the 1-norm arises, in my early theory, is the dot product formation with the dual space is already done as the intensity dot-(the probabilistic view intensity – think of the intensity of this dot as the tendency of the awareness to select the vector ) presents itself to the awareness.

Probability theory’s mathematical framework naturally arises from the N-0 tensoring phenomenon. The initial set can even be simplified into

$\{\{INITIALLY\ SELECTED\ door\}, \{Other\ doors\}\}$ . The axiomatics need the view that a held intensity as say an observed-held measurement intensity and spin state in the Stern–Gerlach experiment is not altered in the experiment process. The Schrodinger’s cat viewed as dead, stays as dead as the dead is dead. In fact, same with the alive state. Therefore the intensity associated with the,  $\{INITIALLY\ SELECTED\ door\}$  does not alter as no processes alter the configuration of intensity initially associated with the set. Think of a computer simulation, and selection of the first door as intensity pathway selected by the awareness. It’s a viewed-held state. And it is plain to see the alterations of probability-intensity the intensity associated with superpositioned vectors only alter for the  $\{Other\ doors\}$  set. The awareness-pysche alters the intensity of the vectors associated with them based on the view of them as empty. The view also leads to profound theories of psychology, natural modes of functioning of the psyche, the possibility of supernatural modes for a duly trained awareness. Psychology and quantum physics become one field, as suggested by the symbol Psi,  $\Psi$ . The symbol associated with psychology and also the QM wavefunction. And plausibly a view of the anthropic neural processing axis, analogous to the world axis.

What appellation a set of forms allows, and the way it, the word, goes with other words in a sentence, the tensoring of perception, the states, the auto tensoring of say the form “doors” with the  $\{0,1\}$  indicating the gifts presence or not, and the tensoring propagating to the right operator-dimensional plane, these form the idea of language as a form of math itself. Down to the alphabet and the words, if not just the grammatical structures, language is engaging a mathematical formations. For instance, nouns perhaps represent tensor-able awareness-perception states, tensor-able operator states. **The Dilipean mathematical language**

**theory** outlined would allow accurate expression of problems in language and an immediate translation of puzzles to math. Lets take the statement “ Two charges attract” – the statement says two noun-objects tensor to form negative spin tensor states that makes topological space ‘disappear’ its intensity magnitude, generating the illusion of space between the two objects disappearing. The very interpretation of the sentence leads to the theory of force, that opposite signs of the  $S+$   $S-$  operator topology artifacts of a dimensional order, are needed to structure such a tensor-space, and so forth.

As the Anthropos is a  $N-0$  processing set, the individual sound units, and perception units do not arise randomly. Major classes of processing, form classes of cognition. The visual is heavily associated with the dimensional structuring drive operations –

the 2-D surfaces, to 3-D surfaces, in human visual processing, for instance. The tactile is superpositioned perception of operator topologies of different planes. As breath is the axial scan, the notion of smell the symmetry breaking events in axial scan, plausibly. And taste, associated in traditions with the water element and the symmetry of the  $H_2O$ , water, and thus the oxygen element space, with atomic number 8 and the degrees of symmetry it engenders, the same in surface topological scan, for a guess. Sound, include the inner sense of sound-vibration, is again the spin-Intensity symmetric collapse, the wave and the conjugate wave so called, generated sense. Inherent interpretation of mathematical form leads to perception, and this happens in the awareness unit situate space of meontological study - for instance, the axial interpretation of spinIntensity formation, in vision is also colour-meaning. Sound is similarly geometry associated objectively with a meontological idea projection and map as well. Again a theory of language-forms to math is hidden in the idea. Dreams, which are known to be affected by the state of the organs, visceral perceptions, and so on – in aspects, the world perception of the conjugate space, in the scan by the Dark Sun. Thus, the body form, the conjugate space world. The occipital cortex, also a link unit, perhaps a topological projection of the conjugate space-brain form and so forth. Would explain the greatly visual nature of dreams. Dreams, in aspects, as plausible attempted processing-altering of conjugate space topologies. The Ferudian Ego drive as also involved in the filtering formation of the “viscera” – and not just in the dream distortions – a theory linking dream formation, meaning, and state of the physical inner and outer world form. Theory of cognition, dreams, all plausibly have purely mathematical expressions in the Dilipean mathematical framework.

Anatomy, neural anatomy, all proceed from the mathematical forms interpreted in spin superposition which gives it a wavy organic appearance. The geometric structures are processing cores, in the awareness scan, as earlier indicated. The geometry of say pyramidal cells, indicate processing-geometry. It is geometry that defines function on all planes of anatomy.

The projections from neurons plausibly indicate collapse-projection till its projection on the hypercomplex plane where  $1-1^*$  is embedded, is – the synaptic node.. I guess, synaptic signalling will unveil N-geometries and recursive structures invisible perhaps on this dimensional frame. The selection of n-permutation strings held across symmetric spaces seem to be synaptic “firing.” The spermatozoon, reflect axial scan, in form of own universe-hyperthread DNA topology. The gonads are  $1-1^*$ , in hyperbolic embedding in female anatomy, and spin-axial scan forms in male anatomy. The DNA forms are higher dimensional topologies, scanned-collapsed, and thus structure information which may be evolved into form in the three dimensional. **DNA** is function, action, perception. It is the basis on which selection is. Rather, it, in a sense, provides a higher dimensional null-space where another DNA space is formed in the N-0 drive. It, when four dimensional, defines the frames allowed of action by a three dimensional awareness, so to speak.

**To venture an even stranger Dilipean guess,** the 48 space correspond to embedding of say a 4 projections of the  $2-2^*$  on the 12 axis solar space( Solar DNA as 6D, and with the dual spces, 12 – a number often associated with the cycles of the Sun), and two axis taken away as polar projection space, not usually allowing the DNA embedding. That gives the 46 anthropic chromosomes. Well. What that exactly means I dunno either – yet discovery proceeds in heuristics. **The  $2-2^*$  embedding holds the chromosomes in an X-form.**

An article on Wired.com, <https://wirelesspi.com/the-reason-why-the-monty-hall-problem-continues-to-perplex-everyone/> says, “The Monty Hall problem is a rare mathematical problem that confounds our intuition in a most vexing way, even for probabilistic experts. “ Other articles point out, “Even the famed mathematician Paul



Erdős did not get the answer right and was only grudgingly convinced of the correct answer after seeing the output from a Monte Carlo simulation.” “ While the(Monty Hall) puzzle looked simple, it perplexed some of the brightest mathematical minds in the United States, including the great Paul Erdős who was one of the most prolific mathematicians of the 20th century. This continues to be the case today.”

It is the accurate symbolic structure arrived at that would make math effortless - as effortless as the effortless movement of thought. The natural thought and the processes of mathematics would be seen as identical on the symbol-force and awareness-operators plane, and therefore easily understood. There is a reason why Grassmann, and Robert Boole, all attempted the study of “the Laws of Thought.”, a phrase that is even the name of Robert Boole’s famous text.

Different algebras need a profounder view, on principles I suggest in the earlier paragraphs – if one is to arrive at the ideal mathematical representation of them. In Probability theory, when one writes  $1 + 1 = 1$  as the foundation of an algebra what one implies, is with 1, one associates the projection of a multiplicative-identity axis on a zero, the necessity for a operator topology element to exist in the projected space.

Assume in a altering process on a zero, say a space where particle pairs appear and disappear, each pair is given a label due to **distinguishability**. The set representing the zero space has 1 or 0 associated with each element due to the factor outlined. As the elements in such a set are in superposition one could vaguely say  $1 + 1 + 1 + 1 \dots = 1$ . A representation with a greater degree of accuracy, is,  $1: \{1,1,1,1 \dots\}$ . If the set  $Z$  is say  $\{1,1,0,1\}$  then  $Z$  itself can be associated with the value 1 in that it has the multiplicative identity, *is* projected into operator topology existence. Yet that 1, is a higher dimensional unity. Just as there are different orders of zero. A higher dimensional space projected in which spaces of a lower dimensional order evolve. So, in  $1 + 1 = 1$ , the 1 on the right side is on a higher order zero space, and is of a different dimensional order. Present day symbolism doesn’t account for that. And the difference in the way in which the superposition idea is to be interpreted, the force associated with the operator + discussed, what is implied by  $=$  there and what the symbol 1 stands for in the algebra, all disappear in the simplistic expression of the algebra form as a strange identity.

That it is the spin drive that processes forms, is why it is possible to process  $y * z$  and  $z * y$  differently, and it differs by a  $-ve$  sign in anticommutative algebra. **Anti commutative algebra is at the foundation of physics for the same reason**, and its appearance is due to the  $S^+$   $S^-$ , the  $1-1^*$  axis, the orphic egg at the foundation of spin driven topology processing, and the ability of the spin drive to proceed in two different directions on the  $1-1^*$ . The ability of the  $1-1^*$  core to flip in processing a  $N-0$  topology space.

It is, I argued, ideal to think of the imaginary number  $i$  as a spin axis alteration operator. The alteration impulses, as they are associated with superpositioned axis, and superposition is profoundly associated with the idea of addition, additively accumulate themselves as intensity in the axial hyperfield, thus the form  $e^{i\theta}$  associated with a spin intensity. What we call the complex plane is the "infinite" ( an extremely high order dimension, a number corresponding to  $1/\text{plank's constant}$  order. And plank's constant not that constant but theoretically alterable by an awareness of a higher order. ) dimension, projected on to the plane, in a axial symmetry preserving map, and dependent on which of the permutation cycle on the highest plane is projected. When one denotes  $i$  itself as a 90 degree rotation, one is referring to the pure geometry of the  $2-2^*$  plane, where  $i^2$  would be negative 1. The exponential form indicates, the impulse is held on the highest dimension of the manifold which embeds all the lower dimensions. Thus one also sees, the infinite series that represents  $e$  is infact a structure within a structure form, the zero inside embeds a form which embeds a lower form, etc. The nature of the addition symbol there is a super position on the zeroth order zero, I guess interpretable also as on the 'infinite'-th order zero.

All infinite series, and associated forms is to be understood as operator forms. And a deeper geometry as unveiling of the whys of the infinite series. For instance, the Leibniz series for  $\pi$ , suggests an enumeration association with various

dimensional  $S^+ S^-$  in altering states, the odd nodes of which are involved in dot product intensity formation. The intensity each of the odd  $N-0$  core projects to a surface in forming the hyperthreads is  $1/N$ , AND the summation contributes to the hyperthreads processed intensity invariant  $P_i$ . On the  $2-2^*$  plane, the dimensions of the manifold embed themselves under spin in the axes,  $1, i, -1, -i$ . The odd embeddings thus have altering negative signs. The different series for  $P_i$  unveil themselves in different spin dynamics that run in parallel to the hyperthreads formation – the different operator dynamics of the  $N-0$ . That the “infinite” series  $1 + 2 + 3 + \dots = -\frac{1}{12}$  is therefore a view of an operator dynamic as well.

Permutation strings perhaps in group structures isomorphic to the “dihedral” groups of the  $N-0$  geometry, is what is engaged on a plane of awareness-selection drive. Each of these permutations represents a spin axis scan cycle. The awareness unit selects one of these configurations, and to digress: perhaps the allowing of the selection view set, that is, the idea of selection itself, is the Will of an underlying awareness which the traditions would have labelled a Universal Spirit, a Non Self, and so on. In fact, in a strict sense there cannot be two awarenesses driving a single vehicle( a universe-system, even if superpositioned realities are allowed, ultimately it is a single system), so the selection in the ultimate sense can only be done by a single higher order awareness, and not the individual awareness, though it may be allowed apparent selection possibilities and a selection of views by the underlying Universal Spirit, and the selection of one of which is then okayed by the Universal Spirit – (which then engages the selection it allowed – that is, it plausibly filters the selection set, engages the selection as an action, if **It** decides to– for only It can engage the world system in action) – the **One Only Will** in action. Schrödinger were led to the idea that “There is only one mind,” yet the above argument I present says, there is an underlying One awareness, and there is a multiplicity of individual awarenesses. This distinction between the individual awareness and a Universal Spirit is apparent in the Upanishadic ideology as well which Schrodinger were apparently an ardent fan of. The beginning of the Sveta-ashvatara Upanishad, for instance. In own philosophical works, Schiller posited that a Perfect God would not be engaged in a continual punishment reward and the allowing of the unideal therefore. Therefore, Schillerian philosophy took away all possibility of Individual will-action in the sense of a will that directly translates into action, and posited an Eternal Nature – that does all action. There is an alchemy of the individual will and the Eternal Nature, along with the

Universal Spirit. The notion of Eternal Nature, has been part of Germanic philosophies, as well as eastern philosophies.

A Non Self engages the Void, the N-0 artifact, the Shunyata(void, zero) of ancient eastern traditions. Founded on the view, one finds an understanding of the Diamond Sutra. The N-0 is only generating forms, a world machine. The meditations of the Zen traditions are thus," non abiding," and exits from identity with the form view.

In other words, the individual can decide which direction to turn to (spin cycle permutation string selections), express the idea of engaging S+ and S- operators, aggregates of which are all plausible operator driven phenomenon. One pair of nodes of such a permutation string acts as an axis of projection. The  $i$  operator sequentially scans the selected string, which also propagating the spin drive down lower dimensions. For instance, for each nudge of the  $i$  operator, the  $1 - 1 * \text{axis}$  flips. And thus a square-form conjugate wave phenomenon could be postulated at the foundation of reality. The square conjugate wave forms even appear on petroglyphs, as the earliest views of the Anthropos. Again, as the operator only allows quantum flips, ultimately the most fundamental wave form in the appeared mathematical reality is plausibly a square wave. Some operations such as the enum, which is bound to the idea of the Spin, proceed on its own, as if animated under the will of a "Universal" awareness, an Eternal Nature. The axial scan, the breath, reflects in all processes.

All geometric results can be understood in terms of spin cycles, angular momentum conservation, loops of a hyperfield intensity scan(*the dot product intensity invariant, for instance, that defines the spacetime geometry in special relativity. The surface of a N-0 topology are such segments. And as earlier said it has its hyperbolic maps in perception as well*) which again preserve what is labelled spin angular momentum. Distance, and linear movement is notions arising from a particular order of the spin scan N-0 topology. A heuristic that suggests this is so – is the Pythagorean theorem can be understood as net zero angular momentum in the awareness drive sense. To describe the idea in less accurate terms, the Pythagorean theorem says a right angled triangle would not spin around on its own, around one of its vertices, if filled with air or water due to the forces of atoms colliding on its walls.

Well, even though I have no idea of the math that goes into proving the Fermat's last theorem, I might here venture to guess, N-mod cycles, multi dimensional spin cycles that form closed structures(loops), and what not appear in defining what higher order geometries, a form can drive.

I demonstrate in this paragraph, that the Dilipian view, even in its early heuristics, brings a clarity to structures in Quantum physics. As something beyond a lifeless manipulation of symbols. For instance, representing the axis of projection of a particle, the polar axis, the z axis, one is dealing with the  $S_+$   $S_-$  in its two views, in the two reflected-symmetric spin drive forms acting axially.

$$[S_+, S_-] = S_+ S_- - S_- S_+ = 2\hbar S_z$$

The why the commutator appears is also clear. The  $S_x$  and  $S_y$  are different from the  $S_z$ , in its deeper geometry is also clear from the form of the operators. In  $S_z$ , a higher auto dimensional tensoring, with elements of a higher order, as  $S_+ S_-$  and  $S_- S_+$  seems apparent, and it forms a unique axis of spin projection. We will also soon see that the  $S_z$  form appears from the commutative tensoring of the two other axis it projects, indicating its higher dimensionality when existing in that tensoring, there an operator process involving two axes. For the other two axis, one arrives at:

$$[S_x = \frac{S_+ + S_-}{2}]$$

$$[S_y = \frac{S_+ - S_-}{2i}]$$

Regarding the above two definitions,. there is no easy way to physically motivate the form of the operators in today's physics. Physicist James Freericks writes, "There does not seem to be any simple way to motivate.. the definitions, but we will see *a posteriori* that these are the right definitions."

For one in interpreting the forms of  $S_y$  and  $S_x$ , one could say the polar projection axis makes available its forces in superposition as it projects one of the axis. Geometrically what happens seems that in the above situation on the 2-2\* plane the  $S_+$  and  $S_-$  forces in superposition is available, and the other axes is available under the *i operation*, the spin axis flip operation – which dimensionally propagates into the deeper dimensions. On a higher dimensional plane the form of the axis alteration operator could be different – and could take the form of  $e^{(i \frac{2\pi i}{2n})}$ , for an early heuristic guess.

In fact, it is easy to see that a hyper dimensionally propagating spin flip operator  $i$  is at the foundation of the two forms  $S_y$  and  $S_x$  – that is to say, under that operation is the alteration of the form of one axis to another – and it is a hyperdimensional operation. That S+ AND S- forces are available in superposition in another state of processing of the S+ S- axis, needn't appear as a far fetched surprise. Now, to see the two forms are related, remember the spin axis alteration operator  $i$  on the '1-1\*plane of the manifold would just flip the signs. Applying the operator  $i$  to the  $S_y$ , form and allowing the operator to propagate its action into the lower dimensional spaces, the collapsed spaces, a force-form which is associated with the S- polarity of the orphic egg, as earlier described – results in the  $S_x$  form.

That is, also to say that the  $i$  operation is also a wiring operator on the axial dimensions – it is involved as an operator force that connects the higher and lower dimensions in the spin process. These identities suggest the idea as well, *One may read them as when  $i$  acts on the tensored axis, the polar axis, there is a projected commutative spin processing in the lower dimensions.* That is, unlike in today's physics, the Dilipian reading is of the  $S_z$ , say in the first equation, as representing a polar axis structure, with its own unique properties.

$$[[S_x, S_y] = i\hbar S_z]$$

$$[[S_y, S_z] = i\hbar S_x]$$

$$[[S_z, S_x] = i\hbar S_y]$$

The forms on the left are again to be interpreted as planar-spin structures, their anti commutative spin processing and the operator  $i$  as the dimensional wiring operator. Again a better symbolism, a greater clarity in understanding these forms is called for – and what I do is just suggest ideas here – and say the early ideas of my new math needn't be without a foundation, and that forms in quantum physics also naturally motivate ideas of the sorts as well. The presence of an enum operation generating both measurements and dimensional axial structuring is suggested by that S+ and S- act as ladder operators and the  $S_z$

*operator measures the height of the ladder as mh units. In the philosophy of my math, that, acting on different dimensions of the manifold, is the number system itself. Space, directions, the number, the N-0 integer, the quantum, all emerge simultaneously thus.*

*In other words, the operator identities of Quantum physics is, in the Dilipean sense, to be interpreted as a distorted, by the limitation of the symbolism and structures of modern math, view into a universal hyperdimensional algebra (and the algebra-generated geometry of "space,[ and time as conjugate space-spin-processing]" itself).*

Physics and Math appearing as One view.

Physics dies as a science, and rises, as pure math, as the phoenix dies and rises from the ashes.

**The Dilipean view also ends the debate on what is mathematics** – I would humbly point out the field of philosophy of math may now safely, along with departments dealing with the same, shut down.

As I earlier, strangely, mentioned UFOs, I want to add even the foundations of space exploration of present day humanity is plausibly off. Zooming in on the panels of say the Wikipedia imagery of the Lunar module Eagle[ [https://en.wikipedia.org/wiki/Lunar\\_Module\\_Eagle#/media/File:Apollo\\_11\\_Lunar\\_Lander\\_-\\_5927\\_NASA.jpg](https://en.wikipedia.org/wiki/Lunar_Module_Eagle#/media/File:Apollo_11_Lunar_Lander_-_5927_NASA.jpg), [https://ia600209.us.archive.org/17/items/the-lunar-module-eagle\\_202503/THE%20LUNAR%20MODULE%20EAGLE.pdf](https://ia600209.us.archive.org/17/items/the-lunar-module-eagle_202503/THE%20LUNAR%20MODULE%20EAGLE.pdf) ], one can easily say it is clearly faked. The panels, the hanging cloth, Zoomed in, all suggest it would serve well as an efficient cloth drier in the Sun, despite the early technological era, than a moon lander on the moon – for it clearly cannot withstand either taking off from or landing on the moon. There are so called conspiracy theories as a different species runs this agenda on earth, while having their hyperspace tech in orbit for satellites etc. The moonlander were fake – not all of the data from the moon were fake, I guess. Every photo of earth from space is a cartoon fake in which the continent sizes widely differ, greater than perspective accounts for. And the cartoon quality improved only with advancements in CGI. In the space stations one fights actors in wire-suspension dynamics. A zero gravity environment would have all going ping pong in different directions. They present the interiors also

as with electronics and electric wires hanging around freely -not the way anyone would design a space where people are likely to ping pong around in different directions. In my physics – it is impossible to get across the N-0 boundary with Newtonian drives. As in – on a linear path. One has to enter hyperspace with a spin drive. The form of the UFOs allow for such drives. All NASA and which ever space agency launches can be seen exploding in a pattern that seems to map linear elements to hyperbolic elements.[ <https://www.youtube.com/watch?v=Y1Hfiirwgys>]. Similarly anything entering the boundary, if it does, does so is a topological disintegration, and a mathematical residue processing is what is then seen. In my math the linear elements undergo a map to circular and hyperbolic elements. There is I guess hyperbolic analogues of spin matrices in quantum physics- and if so, they arise due to the these fundamental maps that the spin evolution on the N-0 artifact generate in the awareness. A lot of the **imaginary** UFO hyperdrives function on the principle that a high spin state, say charges circulated near velocity of light, withdraw the system into a higher space – the system travels in hyperspace, in which world states in time are configurations in space. Exiting into hyperspace, and entering in a different configuration in the same time, is why UFOs are reported even in military reports as displaying impossible accelerations no known metal can withstand, let alone life forms. There have been papers published on the impossible acceleration of objects observed on military radars, etc. Speaking of the imaginary spin UFO hyperdrive, in a philosophical sense, the awareness withdraws into a higher space, a hyperspace as the rotation of charges at a high velocity makes the awareness unable to project along any one direction, in a quantum of time. In processing the charge elements rotated, the topology that forms around the UFO, so to speak cannot be held in the awareness of that plane. The particle rotation velocity being near speed of light – the awareness nudges itself in its view off the particular N-0 topological processing plane, into hyperspace, through the zero-singularity. This again accounts for the phenomenon seen in which UFOs seem to disappear into a deeper dimension.

The idea that planetary and higher order forms are N-dimensional collapsed topological scans may seem far fetched. Well, for one the dual space geometries, etc. are clearly visible in nebulae structures even – for instance in the NGC 6302, known as the "Butterfly Nebula", the Planetary Nebula M2-9, and other bipolar nebulae- to a far greater extend than any random explosion theory can account for. In the earth moon system itself topology on the moon surface seem to reflect the earth continents, <https://ia800808.us.archive.org/15/items/MOONZ1/MOONMAPZ1.pdf> . Again, galaxies as spin-processing structures integrating lower order spins into their



topology, the plausible unconscious origins of the integration symbol as spin-drive form with its dual, etc is poetically touched upon in this non talk, [https://www.youtube.com/watch?v=DxdB0dzb\\_go&list=PLXSGpl1P\\_TP-cmvoQhECCGecBTc0zndrS&index=39](https://www.youtube.com/watch?v=DxdB0dzb_go&list=PLXSGpl1P_TP-cmvoQhECCGecBTc0zndrS&index=39) . Spiral galaxy NGC 1672, is even reminiscent of the integration symbol! I risk **talking like an artist**, in a world of mathematicians and scientists amongst whom it is the vogue now to say by random chance, well, there is no such thing in world of geometric forms generated by laws of universal algebra.

In the Dilipean physics view a galaxy ought rotate as a disk, in a view, for it is a N-0 artifact, just as a planet would, when it displays an order of a topology, rotate as if a whole unit. And if at the order of galaxies, the 7th order zero, there is no difurcation of the Dilipean spin, the observation would be all galaxies rotate at the same rate as observations seem now to suggest – and there is no way modern cosmology can account for that observation. Yes, on N-0 surfaces, and so on - there are movements seen due to spin superposition, 1-1\* axial flips, associated wave phenomenon, and plasma allows the awareness views of different orders of geometry and processes, and therefore stellar surfaces could display different patterns and so on. The N-0 spin pattern stars appear as in the topological projection on the earth - 0 view. The details of the way the views transform are yet to get discovered and systematized. (Even authentic ideas of measure and its interpretation in different dimensional views is in need of new Dilipean discovery to arrive at the authentic higher dimensional mathematics. ) Yet, the insights is sufficient to say that, there is no need to search for a dark matter, a dark energy and what not to account for phenomenon as the galaxy rotation pattern puzzle, expansion rates of the universe, and so forth - as these ideas and forms is driven by pure math and N-0 scan spin cycles. In the universe, is expansion and contraction cycles, and so forth – which will be understood as the math artifact and its inherent spin under an awareness scan, itself, is understood. The experience of the breath itself is experience of topologies of the mathematical spin-scan cycles of the universe. Therefore, one may also venture to guess here, the notions of a universal breath and so forth had risen amidst the ancients.

My explorations into philosophy, I believe have enabled me to

take a fresh view of age old puzzles. For instance, the Achilles and the tortoise dilemma. Today's texts reduce the problem itself to a something else, and pretend a series summation is the answer. Zeno's statements of the paradoxes itself seems far profounder, and Zeno definitely would have been aware of a series sum leading to a finite value – a geometric proof of the area of a unit square as 1, which is also generated by dividing it in half and then diving the remaining half in half(  $1 = 1/2 + 1/4 + 1/8 + \dots$  ).. and so forth ad infinitum.. would not have been inaccessible to the Greeks. The puzzle itself is profounder in its statement. For instance, see these slides [https://www.youtube.com/watch?v=OGSAEg1ljhs&list=PLXSGpl1P\\_TP-cmvoQhECCGecBTc0zndrS&index=15](https://www.youtube.com/watch?v=OGSAEg1ljhs&list=PLXSGpl1P_TP-cmvoQhECCGecBTc0zndrS&index=15) I did for own amusement [https://www.youtube.com/watch?v=vE81vQJ9CJg&list=PLXSGpl1P\\_TP-cmvoQhECCGecBTc0zndrS&index=48](https://www.youtube.com/watch?v=vE81vQJ9CJg&list=PLXSGpl1P_TP-cmvoQhECCGecBTc0zndrS&index=48) a few years ago.

The solution to the Zeno's paradox, which strangely evades even physicists to this day, is not an infinite sum, it is that position and momentum( velocity) are projection-measurements on different planes of the N-0 artifact, a position is a particular dimensional projection-measurement of the N-0 spin artifact, the wavefunction. Achilles does not overtake the tortoise by covering space. Space, in the sense of a plane of the operator topology of the N-0, is a quantum awareness drive generated phenomenon – Achilles projects himself on to quantum generated spaces in own measurement-collapse events. Thus is not linearly in motion, and is not covering distance to overtake the tortoise. Space as I earlier is said is a topology of discrete operator elements. Even in the usual quantum mechanics view, it needs to be a set of events where Achilles is a wave, is a particle with a position .And the same in the case of the tortoise. The resolution of the paradox is that, and Zeno were on

the dot in saying motion in the usual continuous sense does not exist. The philosophical implication of that include having to discard ideas of a calculus of motion on continuous space. Zeno's paradox, in the converse, suggests the view of space I suggest as not continuous, discrete, operator driven, is a possibility; while continuous space, allowing motion, as often assumed in today's physics, is not. And therefore the theory of continuous functions and their calculus has inherent paradoxes – and therefore in the mathematical sense is unfounded.

Prior to  
now, that is prior to setting out

to systematically study mathematics and higher physics,

I had also explored heuristics of discovery, the approaches to discovering knowledge in various traditions such as the Daoist, and the Zen – for instance, in this auto talk, I auto discuss ideas of a Zen inspired approach to discovery of a new math.

[https://www.youtube.com/watch?v=ffiUKslGDkg&list=PLXSGpl1P\\_TP-](https://www.youtube.com/watch?v=ffiUKslGDkg&list=PLXSGpl1P_TP-cmvoQhECCGecBTc0zndrS&index=2)

[cmvoQhECCGecBTc0zndrS&index=2](https://www.youtube.com/watch?v=SfiOLoEjL3A&list=PLXSGpl1P_TP-cmvoQhECCGecBTc0zndrS&index=12) . even though the videos were not done in a serious tone, other videos on the playlist such as [https://www.youtube.com/watch?v=SfiOLoEjL3A&list=PLXSGpl1P\\_TP-](https://www.youtube.com/watch?v=SfiOLoEjL3A&list=PLXSGpl1P_TP-cmvoQhECCGecBTc0zndrS&index=12)

[cmvoQhECCGecBTc0zndrS&index=12](https://www.youtube.com/watch?v=SfiOLoEjL3A&list=PLXSGpl1P_TP-cmvoQhECCGecBTc0zndrS&index=12), suggesting what the number system ought be as and so on would be interesting perhaps to the reader. On the playlist is also videos, where I suggest a better terminology for mathematics – for instance proto-

rythmos, prime rhythms, for arithmetic,

[https://youtu.be/DxmVrsSoJuk?list=PLXSGpl1P\\_TP-](https://youtu.be/DxmVrsSoJuk?list=PLXSGpl1P_TP-cmvoQhECCGecBTc0zndrS&t=57)

[cmvoQhECCGecBTc0zndrS&t=57](https://youtu.be/DxmVrsSoJuk?list=PLXSGpl1P_TP-cmvoQhECCGecBTc0zndrS&t=57) . It aligns with my view that the number system is made of different dimensional orders of integers, an enumeration operation that drives spin, and also existing across the N-0 planes, the vertical dimensions – in the dimensional formation scan sense.

In the writings of Plato, one finds Socrates devotes a great deal of attention to the form,

sounds, and etymology of words. The aesthetic of

mathematics rests greatly on the forms

selected to represent ideas, for instance

ΙΣΗ (ἴση, ísē),

for equations, and

ΠΡΩΤΟΥ

ΘΜΟΣ (πρωτοϋθ

μός, protorhythmos) – generate

aesthetic frames of view, of “thought”, in which one is in the ease, and in the primordial universal rhythms when studying the theory of numbers. That is to say, these ideas, as the priming of the psyche with the right mathematical word forms, would even naturally engender greater and naturally aesthetic rhythms in the presentation of ideas, proofs, and so forth, is my view. Even perhaps enabling a more direct access to the profounder mind, symbolized by Wagner with name GurneManz, in Parsifal. Aesthetics as a drive to discovering the profounder is a tradition that has existed in old Europa, for instance.

Definitely amidst the Greeks. “The aesthetic, is a manifestation of secret natural laws, which otherwise would have been hidden from us forever,” wrote Johann Wolfgang von Goethe.

During the study phase also ideas such as aesthetics of presentation of mathematical proof and other ideas occupied I. I do not get into the details of the same in this essay. The ideas I had distilled on early exploration –from the aesthetics of selection of variables that ease the flow of reasoning, to having the proof reflect the **Idee**, in the Hegelian sense. **Gestalt theory in the organization-presentation, ideas.** Heuristics of mathematical discovery is another field that captured my interest and I had spent some time in auto study of.

These ideas extend naturally into the field of pedagogy, for instance, in the pedagogy of quantum physics, the intertwining of the nitty gritty of differential equations in presenting the Schrodinger’s equation along with its solution, and what not take away from **the form-gestalt**

of presentation of a higher order idea as a unit in itself –

An idea should be presented as a higher order unit of abstraction, the nitty gritty details abstracted out. Just as when introducing car engine, one wouldn’t go into the details of its structure – where the nuts and bolts are – and initially familiarity with the way it functions, in the output sense is an ideal. This imitates the way human cognition process the world. Individuals do not think of the details of objects in understanding a space of objects – only their form and function. Only then, with that familiarity with a space of objects, a deconstruction into a lower order space of form-processes is efficient. In present day presentations, the idea soon is lost in so called derivations and trivial computational details even, and so on, which run in parallel with the initial presentation of the idea.

At this point, it is also my endeavouring to understand things in the field of today’s mathematics, in a systematic

way, starting from the foundations, that drives me to undertake a systematic study of mathematics. Though I have a level of familiarity with aspects of undergraduate physics and mathematics, as evidenced by my certificate on  $N \times N$  Differential Equations and Linear Algebra from MITx, I believe a study of introductory mathematics is like engaging poetry. There is always room to refine oneself, one's reasoning abilities, systematic thought, and problem solving skills, and understanding of the fundamentals, in a deep and focused study of the fundamentals of any field –and particularly so in mathematics and physics. Further, a systematic study seems necessary to me at this point.

In undertaking the degree I also plan to hone my mathematical ability to a point where I can effortlessly translate my philosophical insights into mathematical language. For that I believe a study starting from the foundations of mathematics and engaging problem solving over the years would be highly beneficial. That leads me to apply for an undergraduate degree, and the foundation years would enable me to auto-hone my study skills, taking advantage of the environment of study that would catalyse the endeavour.

To gain momentum in progress on a field, one has to spend a great amount of time in ease, pondering its foundations is my philosophy. For the entire scope, limitations, and possibilities of a field, is just in its foundations. One may lose oneself in the meshes its frontiers of exploration may generate, and not see, so to speak, the forest for the trees. That kind of approach, rushing into advanced studies, in fact prevents greater discoveries and insights, in my humble view. For instance, to understand the force of a symbol as  $+$  one needs time spent in seeing the ways in which the symbol acts in elementary math, and also the ways in which arises in Quantum physics, and beyond that time spent pondering the symbol itself. Greater time needs to be spent on elementary study to understand the deeper meaning of forms. What do we imply when we say 'equals,' or by the division symbol in terms of  $N-0$  the world machine drive, for instance? In addition to my desire to systematically study the field of math, it is also a need as I suggested now, to spend a greater time pondering the fundamentals as

well, that leads me to pursue the undergraduate degree  
**now.**

And I now stand rather glad I took the time to philosophically ponder the field. For, If not, the absence of a deeper understanding finally leads to views, as *"I do not like it, and I am sorry I ever had anything to do with it."* — Erwin Schrodinger.

Well, and Einstein were right, I guess. "If (quantum physics) it is correct, it signifies the end of physics as a science." — Albert Einstein. In my early discoveries I arrived at the view, the beginning of a field of physics as pure math.

*I include here a link to some of the sketches I did during the early phases of discovery of these ideas.*

*[https://drive.google.com/file/d/1r7Rp8YXagXu060XBOA32xJuNalAViuu\\_/view?usp=drive\\_link](https://drive.google.com/file/d/1r7Rp8YXagXu060XBOA32xJuNalAViuu_/view?usp=drive_link), <https://bit.ly/E1YZ1>*

Polya, in his famous book, How to Solve It, suggests that it is the nature of intelligence to lose interest, when a field is presented without sufficient analytical depth. I feel my high school and college grades reflect virtually **only** the nature of the educational system I were in, which might be adapted to a different type of a student, but were definitely not to my taste, nor to my approach of understanding and discovery.

Perhaps a humble sign of **reasonable** intelligence even

that I were **not the happiest top**

**performer** in a demented system. I would say, it does not reflect

my own ability as a student to deal with the subjects. It is normal to not focus on the illogically presented set of ideas. I also wish to say that they do not reflect my present understanding of the subjects either, and that the recent certificates such as the ones from MITx on Differential Equations and Linear Algebra, and the near perfect grades



I had on the two graduate level courses I took from Emporia State University, would be perhaps a better indicator of my ability to do a math degree.

I add a statement of interest I sent to a school of psychology, in another university. The statement outlines how the field of psychology may be understood in the framework of a field of pure Dilipean mathematics.

The Psyche is the that which views the mathematical form, and its awareness-forms as geometries and operations on the awareness-drive generated mathematical forms.

# A Statement of Interest

Dilip Rajeev

In  $\Psi$

I think of myself as an autodidakt, and I'd need to attribute a non dictionary definition to that word, when I say I define that here as a form of endeavouring, driven by a desire to know, evolve, and driven by the jouissance of discovery.

The field of psychology steps into the game I engage, as I attempt to the study of the apparatus of knowing itself.

I would digress now to point out that I have organized my expression of interest into two essays, this one – a statement of interest, and the appended essay, a statement of purpose

[https://drive.google.com/file/d/1XbYK\\_Z--](https://drive.google.com/file/d/1XbYK_Z--XFJUZ52o1AZYKYPHLqErAggR/view?usp=drive_link)

[XFJUZ52o1AZYKYPHLqErAggR/view?usp=drive\\_link](https://drive.google.com/file/d/1XbYK_Z--XFJUZ52o1AZYKYPHLqErAggR/view?usp=drive_link) .

The appended one focuses on the nature of studies and endeavours I have undertaken, and why I were planning a degree in mathematics at this point. Admittedly, it were written with the view of applying for a mathematics programme – yet, as it preserves in a genuine sense the nature of my endeavours, I have appended

the same, the way it were originally written. I request the reader to kindly flip through

# the early sections of the appended essay,

before proceeding to read this one.

There I discuss some of my books, and researches on language and so forth. In that essay, I in fact outline a system of epistemology of my own, an approach to understanding the world as mathematical form, evolving, awareness driven, in the quantum mechanical sense, and thus a theory of psychology and cognition as well.

As I point out in the appended essay, I have engaged studies, in ancient language, symbolism, ancient traditions, the systems of epistemology associated with them, and so forth. I have written books on the topics, a few of which I list in the appended essay.

The essay also touches upon the nature of my studies into ancient language, and forms of symbolic expression. I believe these are profoundly associated with theories and endeavours to understand human psychology. Exploring the nature of language, at its nascent stages, when as Freud wrote, “Words were [originally] magic.”

A diverse set of studies, and I were decided on taking up a systematic study of maths. A field of mathematics I have been interested in is the heuristics of mathematical discovery – a field that might have plausible ancient roots,

yet were founded in today's form largely by the works of the mathematician George Polya.

The field of mathematical heuristics of discovery is profoundly associated with human psychology.

And that is where I found that the metaphorical path in the woods diverged, in front of me.

I felt, a deep study of psychology, followed by a degree in philosophy, involving studies on the philosophy of cognition, and so forth, would prepare myself greater for the mathematical endeavour.

And now, that is what leads me, in short, to

the study of  
psychology, and the  
masters programme,  
now.

*To demonstrate interest and ability in a field of study, the easiest way perhaps is to discuss ideas on it. So, in this essay, I will write on psychology, as the study of the way we process the world, attempting to develop a simple view of own.*

The psyche , I define as that which cognizes its

own processes. And cognition I posit is that faculty that evolves between the most

general to the most specific. The general principle, the most axiomatic, as the meontological void.

That the psyche must scan the directions, and at the same time hold the view of the void, the most general principle, gives rise to the notion of symmetry. All processes evolve with a conscious or unconscious symmetry principle. The conscious symmetry principles are the conservation laws, Newton's Third Law and so forth in observed phenomena. The unconscious symmetry principle is called by the physicists the symmetry breaking in phenomenon, which, in my heuristic guesses, involve embedding of higher dimensional structures within symmetric forms.

The principle just posited at the same time gives rise to the notion of a manifold. Assume the gestalt of a line, together with another perpendicular to it. Together, it demands that the psyche hold a higher dimensional artifact, a plane. A notion of a mathematical product is demanded by this observation. The psyche thus constructs through a gestalt-drive, a dimensional manifold. The study of this manifold is both physics and mathematics in my view.

With these short few sentences, and a few aspects of that I intent to demonstrate that in this essay, it would not be unreasonable to say, a view of a theory that answers, what mathematics is, what physics is, why should ideas of the human psyche, mathematics, explain the universe-phenomenon, and so forth has been arrived at. And the why every equation, the psyche engenders in math, equates to the void, is a search for a view of the void.

In quantum physics, appears the notion of the observer constructs own world. The experiments strongly suggest the same. An observer-set driven phenomenon is what



physics is. Articles as “Does the universe exist when one doesn’t observe?” appear in serious discussion of physics now.

There are two aspects then to the psyche just described, the viewed, and the void. The void, the non being plane, which engenders the being-form, as that which engenders the manifold, traces its traces on the zero, the void, yet is not the trace itself. The void thus is not insubstantial, and is where one may say the Soul functions from, it sees the manifold it draws, the trace, and the colours induced from the spin-drive intensity I speak of in the other essay.

A meontological impulse to action, the soul-impulse, ever renewing the form (the trace on the void), the Idee of Hegel, and desire to action, is the Id that Freud identified. Freud, in my view wrongly attributed the Id to

the libido. The Id is the  
desire for  
renewal, it is  
the desire to

# express the soul in Ideal action.

The whys of the association that Freud

arrived at - of **Id** with the libido, will be discussed in a greater clarity later on in the essay. The Id, is the ideal impulse to action, and the **ego-fixation complexes**, and its distortion on the Id-Drive, the complexes drawing attention to themselves, **generate the distorted sense of Id as the libido**, and even lust – which is nothing but the Id and the Ego in tussle, the ego-complexes standing in the way of the evolution of the ideal form, engenders the misinterpretation of Id as libido.

Hegel argues in his Lectures on aesthetics that in the case of the genius, the artist ought attempt to keep his own self and artificial efforts out of the creative impulse, and allow the Idee to act itself out as art. This aligns with the view I just described.

The self Hegel points to is the false self, the set of complexes and ego as the awareness-force that identifies with the same. Hegel, in his lectures on aesthetics, also describes the expression of the Idee, finding an ideal peak in Greek classical art, in its expression of the human form itself. In the anthropic depictions of the Gods. This again hints at

that the Idee, is the Anthropos forming force, that which forms the ideal anatomy-psyche.

The ideals of a first love, devoid of learned complexes, evolves the ideal, that which is inwardly and outwardly beautiful. The Idee, I define as The Id in free play. And Id, conversely, I define as the Drive that brings the Idee onto the being planes, onto ontological expression.

Interesting is that the term Id, albeit it being an English translation of the word Freud originally used, is near in ideo-phonetics to Id of Sanskrit, which appears in the first verse of Rig Veda, and has the sense to adore, the adoration of the Ideal( often labelled the Divine, )the natural impulse of the human. It's a hymn to the God Agni, Fire, the Inner Fire, Soul, the Driving of action.

The ego-complexes, emerge over time as the soul, the meontological, holds various geometries of view, and the awareness force of the soul, over time, tends to trap itself in the various operator generated geometries.

The world evolves in an awareness driven drive, what I label in the appended essay the Dilipean N-0 mathematical artifact. Any geometrical form is associated with a meaning-sense – that is to say, the awareness views the form, and together with it, in the meontological, cognizes a meaning-sense to the form. Thus geometrical forms, operator generated of the hyprdimensional mathematical artifact is associated with meaning.

Operator forms tend to auto trap the awareness, as it is the awareness centred on a higher dimensional zero, itself, that generates the form. The habitual generation of

form, and the operator-forces involved, traps the awareness. For instance, a 2D being is trapped by its 2D habitual awareness, in an enclosure that is the perimeter of a square. The awareness voiding out that sense of restriction, and entering a three dimensional zero, a three dimensional space is no longer thus restricted. Similar is the 3D space restriction the human awareness generally experiences, in a 4D space. The ego-fixation, is an analogous phenomenon. The awareness, generates its own traps, operator-generated space and in auto-regeneration and projection of the same spaces in cycles, views, again and again, its own fixations. One reason for the fixation is the awareness is entering a different lower dimensional plane of the manifold, that it generates, and its voiding out demands a form of effort not easily suggested by the impulses the outward form-perception offers.

The interplay of awareness between the appeared form, and its geometry defined sense, the sense of meaning, also draws into the geometry the force of attention, which in a quantum physics sense is needed for the complex to sustain its formation. This in a sense, is the desire to understand the geometry, an effort to comprehend the world through the complex-geometries. A tree of false knowledge. The altering aspect of the I/ego sense which is indeed separate from the ideal, and the meontological, is a axial-geometry of the ego-complex, and the geometric complexes on planes of the N-0 manifold, themselves the what the axis projects, the surface topology-forms held on the axial form. These two are related in the operator-sense, and in the dimensional collapse sense where a surface topology element forms an axial topology on a different order of awareness collapse on the N-0 artifact. To distinguish the ideal, the meontological, from the appeared, were plausibly a function of

the Zen Koan, “ What were the form of your face, prior to your ancestors?”

The ego, is susceptible in the way it further binds its energies, to the pleasure-pain principle, pleasure as identification with the pleasurable geometries, and pain as its opposite. It is not just the susceptibility of identification with the complexes, the geometries, that the ego is - it is also susceptibility to repeatedly evoking associated forms it associated in experience, with the ego-state experienced in the complex-set. For instance, if a reward geometry is presented to it, in the environment, in association with its engaging a own set of complexes, it then often gradually wires its geometries to auto evoke that reward-pleasure geometry in association with the complex-set.

The quantum information fields hold geometries, as the collective psyche. The individual ego-complex-drive, is thus also greatly formed by the collective psyche, and its pleasure pain association geometries, as well. The ego form, the form of the social expectations, and so forth are associated to a greater degree than mere randomness would allow an explanation of.

All **psychological**

**unease** is founded in ego-fixation on these complexes – learned behaviours, that restrain the Idee, the Id Drive.

In a mathematical sense, the axial forms, the geometries of the manifold, as for instance forms as  $e^{i.z}$ , or as  $1 + x + x^2 + \dots$  ( functions that alter form, generally have a Taylor series-form expression, for instance).. the formation of those geometries, is an inherent function of the awareness drive. That drive, when it renews the manifold(that forms with its symmetry breaking embeddings) , is the healthy Id.

The repeated, yet weak attempt to withdraw the psyche from fixation on a geometric form, is **hysteria, compulsive disorders, and so forth.** The freedom from the geometric sign, the form, is healing. The Buddhist for instance, meditate on the signless, the void and so forth.

The breath, as discussed in the appended essay, is the perception of the mathematical scan cycles of the manifold, and focusing on the breath is apparently one of the ways Zen frees the awareness into the blissful void, from the complexes of unnecessary thoughts, and energy drain associated with the thought patterns. Zen and other meditation techniques also tend to keep a point of focus along with the following of the breath, a zero point, such as the tip of the nose, or the tan den. The very idea of Nirvana, seems associated with a change of mathematical processing basis, the perception vectors no longer pointing outward with the sense of stretched outward and generating unease, and instead pointing to the soul, the inward sense. A phenomenon of mathematical inversion at the zero. The ideophonetics of the word nirvana - Nir ( inverse, negative), vah( associated with the sound *veh*, of vector, vehicle, the word vahana of Sanskrit which again means vehicle)+ na (units) – suggest similar ideas as well. Interesting is also that the traditions of Zen observe the breath at the 3D space manifestation, at the third chakra space, the hara, and the understanding of the way the 3D space formation operation occurs, including the formation of own form. Interesting is how omphaloskepsis , formed a sacred auto transformation art for the ancient Greeks. The technique were deemed worthy of preservation in their sacred art, on marble, by the ancient Greeks. The Buddhist traditions seem to suggest observation of the breath forming the body-form. The Heart Sutra seems to suggest the zeroing out of the psycho-physical complex – and an understanding of it as identical with the void it emerges from. After all, all mathematical modelling of existence has to follow an equals to zero form( a set of equations as  $f(x, y, \dots) = 0$  ) , to find out what exists.

A state of willed withdrawal of the awareness into the void, from the complex affecting the evolution of the Id, and the pleasure principle applied together, is virtually a plausible

panacea in psychological healing as per the

theory I worked, out casually, for this essay. For instance, a fear of spiders – evokes a sense of complexes that is not just a simple sense of fear itself. Once that fear state is evoked, then by will the attention withdrawn, into the inner blissful void, (say following the breath or using the breath to wipe out the unideal states or with an act of direct, immediate reasoned will )and joyous activities engaged – humour, games, anything, even the application of say artificially applied endorphins as a reward – would associate the withdrawal from the unnecessary complexes impulse and the endorphin sense with the spider vision ( the form that evoked the complexes by geometric association – a property of the ego drive ).

There are people who naturally attempt to make light of a difficult situation through humour, and so forth. The phrase, “ make light of,” suggests the dissolution of a something that weighs down the energies of the awareness, drags it away, so to speak.

Another newly discovered, therefore “state of the art,” Dilipean psychoanalytik approach to healing – drawing on the theory and the idea that the psyche seeks to comprehend the forces of a geometry, in observing the geometry, in granting it its awareness-energy: is to give a projected external form to the unideal state.

For instance, a state of fear and worry, could be given a psychological life of its own – in the form of an animal –

fear, say as a shivering rabbit. The animal is own self, in an external projection, and ought not be thought of as a different spirit, it is that aspect of own psyche in projection, and within it is own soul alone.

There are forces associated with that form the psyche could study, as in say, fear in the above instance allows circumspection, being aware of the surroundings etc. From an unconscious impulse it is to be alchemized in its form, into a conscious force wielded. From lead that weighs down, into the elixir of philosopher's gold. The force-forms the psyche of the rabbit is understanding is the object of study. The individual is then encouraged to visualize making the forces own. And this visualization is extended to the grandest, not epic form of that ideal force. The knowledge of the form, the geometry, is thus gained. Natural evolution amplified, by art.

The effort of the psyche in holding the form of fear, its goal, were presumed as gaining an understanding of the forces of the same. The rabbit could as well be flipped into its inverse form, a fierce dragon, its force studied. The animal form as a manifestation of own forces.

Early humanity's religion, shamanic practises, could have evolved unconsciously on such a principle. One could visualize oneself as that animal form, or study the forces of the projected form, with a third person perspective, yet not devoid of the understanding that the animating of that form is own spirit. A space for an external spirit sense driving the form ought not be allowed, and is thoroughly discouraged as it gives rise to the notion that the complexes are not of own creation and has somehow is with an independent life of its own. It is devoid of an independent soul, and the animating of it is own awareness. The phrasing here arrived at seems to find an echo of validation, If I may with a humble spirit venture to say so, in admittedly far profounder Buddhist theories – which say form and other psychological aggregates is devoid of an independent self. The ancient, venerated tradition of the Prajnaparamita Sutras, for instance.

The ancient iconography, and symbolism of traditions we may safely assume were aimed at anthropic auto evolution, depict deity forms with zoomorphic heads, for instance. The wolf headed God of the Egyptians, for instance. The theory I present allows for a new light of interpretation of those ancient forms. The practices of the Shamans, to this day, involve animal fur cloaks and animal head sets.



In the methodology of psychoanalysis I suggest, the positive forces of the form evoked, are understood, and in a sense “appropriated” as own. Its ideal in the ultimate planes, the meontological ideal expression of the force is understood as own force, an ideal and a virtue gained.

Not just that: it would seem, the very idea of a deity, of ancient mythos, is a depiction of the awareness drive

held inner form forces. Evidence toward that is discussed a few paragraphs ahead in this essay. The God beyond appeared worlds is in the meontological view of the non-phenomenon space.

Association of form-geometry with healing, is ancient. The doctrine of signatures of Paracelsus, for instance. The form of plants as associated with their force of healing is found in the writings of Dr Edward Bach. The wisdom the water violet plant by form seeks to gain in aloofness, in growing far from the crowds, in the midst of lakes, for instance, is the wisdom that heals the patient needing the remedy. This principle is again found in Chinese medicine, Ginseng root is a whole body tonic as it is in the form of the human. The Gotu Kola herb of ayurveda, assumed good for the brain, resembles the brain. The walnut’s association with a tonic nature for the brain in traditional western medicine, again finds a form-force association.

This principle could find applications in say, technologically mapping auric fields of a patient, to form, and urging the patient to study the form. Kirlian photography is one such method, within the premises of today’s technology. The Rorschach test, which aims to find psychological states through ink blotch forms, again suggests profound associations between form and psychology. That which is evoked by form, the inner psychology, and complexes of the individual functions as one. The Dilipean extension I offer, is if the patient’s inner states, either through scientific methods, or through visualization, is given a form, ideally even a visualized or animated living form, and its forces and nature is meditated on - the unconscious

fixation of the awareness on the inner complex set gradually disappears. **The shadow is brought to light thus.** The unconscious is made conscious, to borrow words of Carl Gustav Jung, who wrote, “ ‘Until you make the unconscious conscious, it will direct your life and you will call it fate.’ ”

This theory can plausibly be extended to the healing of diseases in general even, given the view that that the brain virtually runs the endocrine system, and thus also drives DNA alteration, epigenetics, and that stress induced methylation of DNA is in the reasoned view of some theorists, the origin of virtually all dis-ease.

This aspect of the psyche, viewing its own traces, engenders “ideals” which are often of a nature of **fixation** on form, is disassociated with the Idee, and thus emerges the notion of fixation, the impulse to hold on to a particular form, and its auto-form fixation aspect, the ego.

A generic theory of **Dilipean**  
**Psychoanalysis** would be to evoke the complexes, induce the void state, and along with that the bliss state. Even though I use the word induce, the patient has to will the withdrawal of the complexes temporarily into a state of a blissful void. The psychoanalysts goal is guide the patient in the endeavour to do so. In that state anything blissful just as a good visualization, a video game, a joyous discussion as with friends, all generate a new association: of the psychological complex-evoking form-drive with joyousness, and at the same time with the dissolution of the complex.

There is also evoked by this view an evident theory of how **jouissance** is a **panacea**, and enables the spirit to shine through bright even through seeming impossibilities, which, given it is evident, I do not discuss the details of, in this essay.

Physical dis-ease may often be traced to a phenomenon of psychological precipitation. If it is stress that induces disease, the psychological nature of the stress defines the form of the disease. As DNA expresses the organism, and only psychological or environmental stress damages DNA expression, a theory of origins of disease in psychological stress is not unfounded. Stress driven DNA methylation is seen to persist across generations, in laboratory studies on organisms. Again psychoanalytically, the form sense of the disease may be externalized. The precipitated form, alchemized into evolution, and the precipitation psychoanalytically reversed, with great trained skills on the part of the psychotherapist, or the the individual engaging own healing. For instance, if the disease involves lethargy it could be a strange alien like mass of sloth. One studies its strengths, - it conserves energy, it stays near the ground at zero potential, avoid unnecessary efforts – these are all good qualities, virtues that one appropriates as own, and then one visualizes its next stage of evolution. A psychological evolution impulse is given to the visualized-projected form, and what evolves is observed. In this case, it could be the form of an animal, a tiny four legged , stiff animal that is observed. The form that spontaneously appears in the psyche of the subject. The new animal is to be studied,

similarly, a while in its movements, the goal is to understand the complex, and also to externalize it and free the awareness-psyche from it. The form evokes the forces of understanding the nature of stiffness, a stiff response to a world state, a stage in the precipitation of the unease. The next impulse it could be a sloth climbing up a tree, its qualities, ease, tendency and the need to auto heal, all could be viewed, studied, its forces made own. The next stage could be a lemur, the black and white stripes symbolizing alteration between stages of joy and depression, moodswings. At the next impulse it could be a white lion, and at the next a positive spirit dragon – which could be made one own externalizable spirit force.

The evolved positive form may also be assimilated into own form-forces.

The origin of disease in stress, says disease is often psychosomatic. Those who tend to psycho somatically strain their own hearts, often find themselves with somatic disorders of the same.

The humble goal of the **Dilipean**  
therapy, is to free the awareness psyche from the unconscious

engaging of the complex, and transform the unconscious to the conscious. To form, out of the greatly difficult, as the alchemists say, a “child’s play.” To make what seems difficult easy, as the summus finis, the final goal of the psychological drama, and the associated interpretation of term “child’s play,” is found in Jungian studies. The alchemist, rooted in Nature, alchemizes Nature’s own Process. Alchemy does not function with a goal different from that of Nature. Art transcends nature, in that the goal of perfection is achieved faster – yet the goal itself, perfection, and the forms and pathways of evolution often remain the same as adopted by nature. One sees evolution of form in the outer world, in the inner world one alchemizes it psychoanalytically.

Jung studied alchemical literature for insights into psychoanalysis and it therefore is not that out of the norm in these studies, in the traditional European sense, to seek what views were presented in Alchemical literature. For instance, *“A new light of alchymy : taken out of the fountain of nature and manual experience : to which is added a treatise of sulphur 4,”* presents a view that agrees with the insights of following nature

itself, in evolution. The author of the treatise, in its preface, says, in ancient spelling, *"..in searching into the secret operations of Nature, they may thence know, and clearly understand the truth of all things, and Nature it self; in which thing alone the perfection of the whole sacred Philosophical Art confists,* so that they go on in the common high-way of Nature, which prescribes in all her operations. There- fore I would have the Courteous Reader be here admonished, that he understand my Writings not so much from the outside of my words, as from the possibility of Nature; lest afterward he bewail his time, pains and costs, all spent in vain. Let him consider that this Art is for the wise, not for the ignorant; and that the sense or meaning of Philosophers is of another nature than to be understood by vapouring Thrafoes, or Letter-learned scoffers, or vicious against their own consciences,.."

In Daoist philosophy, the "Dao," often translated as "the Way" or "the Path," is associated the natural order of the universe, and Daoists strive to live in harmony with this natural order, often referred to as "nature" or "ziran". Nature follows the Dao, says the Dao De Jing. The principles of natural transformation, is associated with the Dao, the Path.

States of **depression**, often arise from autorepression as well.

**Repression** is nothing but the awareness-drive and attention so distorted as the inner Idee is not evolving. One's own ideals is not engaged. This again is rooted in programmed pleasure pain patterns, which is to be psychologically voided out in the healing as earlier suggested. The programming is to be dissolved, and the Idee found again. Even in ordinary parlance, people speak of healing when finding own purpose, and so forth.

Depression is nothing else, other than the distortion in evolution of the Id, the inability to express the inner Idee. The very attribution of the word "depression" to the phenomenon provides insights to its nature. That which can be depressed in an individual is only, by definition, the auto forming of the ideal own form – of the psyche and the physical – and that

phenomenon may then extend to the surroundings of the individual. That were the earlier adopted definition of the Id and the analogous meontological idea, Idee.

If Idee is the Soul-force, the Sulphur  $\blacklozenge$ , The Id is the Mercury  $\text{☿}$  evolving with the Sulphur, the Ideal form, the Id expressing the Idee, is the Salt  $\ominus$ . The three ingredients of the philosopher's stone. The tria-prima. The meontological, the ontological, and their, in a sense, non dual awareness.

The ego-complexes drawing away the energy of the will, and the ego complex structuring often having to do with social structures of reward-punishment, one finds people express their states of depression in lyrics as, "*Discomfort, endlessly has pulled itself upon me, Distracting, reacting.*

*Against my will I stand beside my own reflection. It's haunting. How I can't seem*

*To find myself again*" – Lyrics to Crawling, Linkin Park. The drag away from the Id, and the will of own, structures that distract, and states of unwilled reaction, the effort to find oneself again in the process of healing is all apparent – granting credence to the theory I just presented.

"*A troubled stream from a pure source,*" writes Lord Byron in the poem Prometheus.

Ideas on the notion of **dreams** has been discussed in the other essay.

In Jungian psychology appears the notion of the study of the **Mandala**. The Mandala form appears in the eastern traditions and it symbolizes, in a sense, I would argue, the evolution of the psyche through the N-0 planes, its own awareness drive's autoformed mathematical layers, and these spaces allow embeddings of the N-0 spaces itself, generating autoheld repeatedly autogenerated complexes.

Practises of tracing the mandala forms to the core, and to the outer is in a sense again enabling the Id to express itself, in axial evolution. The flow of spinal energies, the formation of the auto healing caduceus.

In Tibetan and **eastern traditions**, one again finds the notion of the charnel grounds as the space of meditation. The charnel grounds, symbolize, evidently, the complexes. Where the free evolution of life energies meet their dead end. A strange female figure, perhaps what the Jungians would associate with the anima is seen associated with the charnel grounds – the Dakini. In Faust II, of Goethe, Faust brings Helen to life from supraconscious planes. Gretchen is in the dungeons. This mysterious figure, could in aspects be the result of an outer projection of the complexes, and then viewing own core, own soul, through the complexes, identifying the figure as a partner in the spiritual work, the adept plausibly understands the way to hold the core, own core, against the outward energetic flux of the complexes, and psychological aggregates. The centre of the mandala is where the awareness is established in the healing. Again a pattern that fits into a generic theory is posited is arguably found in the example. The Dakini, if I am not mistaken is also associated with the blissful void in the secret traditions of Tibet.

Freud spoke of a **superego**, and its moral identifications. For the practical and functional understanding of psychology, one may stop at the notion of the ego and its pleasure pain trained associations – its training thus in the ethos of a society could be thought of as the ego aspect, Freud referred to as the

superego. And, unlike the assumptions of the Freudians, **the Id emerges with ideals that enable its own evolution.** The inherent sense of the ideal is not different from that. This inherent sense may be thought of as superior to a set of outward laws, and religious texts, often, in the sense that it is that inner sense that sits in judgment of the religious text to say, "this sounds good." Often such a judgement, is without sufficient grounding, and on the vehicle of fallacies extended to a whole text, on errors as the bandwagon fallacy, the *argumentum ad populum*.

In the **oriental** developed theories that emphasizes the **innate ethos**, as found in the works of Zhuang Zi. "When the **Dao** is lost, then arises Virtue, When Virtue is lost,.. then arises the laws of morality," Dao De Jing says. The seeking the Idee and its expression in the effortlessness of the Dao, the primordial Id form.

The Id is the perception of the Idee, evolving through the anthropic complex. The form of the effort to establish the Idee in the appeared. The force of interplay between the ontological and the meontological drives. In its purest perception the Id is the Idee expression in the Hegelian sense. . Freud called it the *Es*. The term "It" is often used by the adepts of Zen to refer to the transcendent. The thusness of its evolution, the "Tad Yatha" of the Buddhist traditions, all have the sense of an unalloyed ideal evolution.

The evolution of this force, generates auto renewing of own form-geometry, from own vital principle, and this , an idea at the philosophical and moral foundations of different traditions, such as the Daoist idea of the preservation of Jing in healing, and analogous ideas is found suggested to the astute researcher, at the foundations of the alchemical theories of the fountain of everlasting life. The ideals of traditions seem the ideals inherent to **the Id Drive**, to the force of its evolution, and non dual with its evolution – perfections, so labelled, that range from perfection of the warrior spirit, to the goodness principle, patience, truth, to modern ideals of independence, freedom, to having an own inherent value system – not something outwardly enforced, all seem sparks of that Idee evolution force, often interpreted in distorted senses, due to the ego-complex influencing its interpretation. Distorting what is a purely mathematical drive and associated awareness-attention-forces with the subjectivity of



form. The forms of the ego complex itself hue the pure sense of That, The

# It, The Id.

Schiller's writings suggest he were a great symbologist as well, and the German philosopher notes, " "Deeper meaning resides in the fairy tales told me in my childhood than any truth that is taught in life."

In the fairy tale, there is the principle of the renewing, Idee often hidden.

In Snow white, the notion of a *"Töchterlein, das war so weiß wie Schnee, so rot wie Blut und so schwarzhaarig wie Ebenholz und ward darum Schneewittchen (Schneeweißchen)*

*genannt"* plausibly refers to the projected renewing forces of the anima.

The search for the anima within is plausibly symbolized in the words, " "Spieglein, Spieglein an der Wand, Wer ist die Schönste im ganzen Land?" " Perhaps the view of a new ideal emerging in the seeking. At one point the inner dynamic psychological forces, as symbolized by the anima loses its ideal state, and the mirror, self-introspection points to a renewing principle. A new principle, in nascent emergence.

The entire Kingdom, the ganzen Land, is the whole space of own perception, own self.

As the Ontological Dao, the mercury animated by the Sulphur, the anima is also the force evolving the world of perception, the living force within the awareness drive. The death of the old and the decayed in the process of renewal is the death of the old queen, dancing on heated iron shoes. The heated iron shoes, imply the world of distractions. The world-complex.

In the fairy tale description of Schneewissen , the colours attributed, is reminiscent of the usage of red and black to describe the ontology of the Dao, the world formation force, forces in the being ontology.

<https://en.wikipedia.org/wiki/Taijitu#/media/File:ZhoushiTaijitu.png> . Red and Black are associated with the primordial planes in eastern traditions as well.

The dangerous forest, that the anima, the living force, Snow White, Red as Blood, White as Snow, and with hair Dark as Ebony, the Red and Dark Dao, the proto ontological force of renewal, encounters and needs to enter, in the drama of renewal of the psyche, is the set of psychological complexes, the forest. There, the attention focus is established in the core, and own soul projected into the externalized complex, the soul within the projected form is own, as suggested in the earlier Dilipian psychoanalytic methodology. The core in an expression-form, is associated with the seven energy plexus, the seven chakras in ancient traditions. Alice Bailey in her studies on esoteric psychology discusses the notion of the seven chakras. The heart of the pig

is killed by the huntsmann. The hunts man is

the forces that draw away from the ideal into the unideal. From the ideal, the forces of the Id gets dragged into the forest, the complexes – the why it happens is own old anima is in an unideal state. A state of non abiding meditation seems implied, and perhaps a state of dynamically stilled meditation that gives the attention of the new anima to the core, the soul, and studies the force that draw away the attention, and the opposite operator dynamic established, thus effectively killing the unideal, the heart of the pig.

# The Seven Dwarves are own seven nerve plexus,

the esoteric chakras.

The huntsman is the forces in the forest that which threatens to kill for the old queen, the old degenerate sense of anima – that which seeks to enslave the emergent ever renewing in the forest of own complexes – that which attempts the destruction of own renewal. That which is assigned by the old queen to take the ever-renewing anima from the Kingdom, the Ideal Id space, to the forest, the ego complexes.

The figures of mythology it would seem are force-forms of own psyche, I earlier suggested. The principle extends to the fairy tale.

The drag to death forces the emergent new experiences, can be transformed, negotiated with, to act as the same force that kills the unideal, the heart of the pig, when the awareness is established against that force, in the ideal. In a strong -view of the soul, and the deeper processes of the own cores. Or when the awareness learns to dynamically negotiate with and negate that force, understanding the mathematical operations of the awareness-drive principle.

The prince, **the animus** itself seems to symbolize the Divine, the meontological, the beyond appeared. Thus the death event precedes the appearing of the prince. The entering the void.

The theme seems to echo across fairy tales. A poisoning sleep, sometimes clearly a “Freudian” symbol, a prick that has the princess fall asleep at sixteen, influenced by the words of a witch, and the drop of blood on her finger. The disruption of the ideal state of the Id, the spinal force, and then its re-establishment in the spiritual marriage with the animus, and the renewing of the kingdom is the motif of the fairy tale, the Sleeping Beauty. Now, a measure of the profundity of a fairy tale could also be to what extent it moves the human psyche, embeds itself in time. Is, “a tale as old as time.”

The tower where the death-sleep of the princess occurs is the axial space of evolution, the spinal, where a spinning witch proves the cause of the disaster, The spinning witch is the complex set that puts the awareness into the maze, keeps it in the spin. The circular patterns of the maze in which the mythical monster, the minotaur is finally slayed.

As Kingdoms have appeared on earth, one may associate the ideal state of the ruling principle with the ideal state of the kingdom. Jung says, "who looks outside, dreams; who looks inside, awakes." In the Individual, the kingdom is the psyche, the ruler is oneself. One's own self as the meontological that draws the trace. The animus. The trace itself, the spinal energies, the kundalini, and so forth as the anima. The association of the spinal energy with the goddess, is virtually universal symbolism. If not universal, a well documented eastern symbolism.

In psychoreligious symbolism, the tree of knowledge seems the complexes, and the serpent the forces that keep drawing the anima into the complexes, the fruit of the tree of knowledge. As in – the viewed, held geometries, distorting the flow of the anima, resulting in the fall from the Edenic state.

In the religious effort, one seeks the **mysterium**, and withdraws from the world-view principle.

In Parsifal, Parsifal arrows down the soaring swan, the Id, and in an adjacent scene, Kundry sinks into the bush. Kundry is the falling Id, the bush the psychological complexes.

Even though I casually touched upon a few ideas of psychology, and a few ideas which are theories in aspects greatly of own- my present interest in psychology runs in parallel with my endeavour to understand the way the psyche processes mathematical notions. A theory of cognition in mathematics, and a theory of discovery.

"Heuristic, or heuretic, or 'ars inveniendi' was the name of a certain branch of study, not very clearly circumscribed, belonging to logic, or to philosophy, or to psychology, often outlined, seldom presented in detail, and as good as forgotten today. The aim of heuristic is to study the methods and rules of discovery and invention. A few traces of such study may be found in the commentaries of Euclid; a passage of Pappus is particularly interesting in this respect. The most famous attempts to build up a system

of heuristic are due to Descartes and to Leibnitz, both great mathematicians and philosophers,” writes the famous mathematician George Polya.

Polya describes **induction** (to be distinguished from the

proof technique that is the principle of mathematical indication) in these words, “

Induction is **the process of discovering general laws by the observation** and combination of particular instances. It is used in all sciences, even in mathematics. “

If it may be formalized to a greater degree, as a technique-set that may be studied, perhaps even a field of psychology built around the idea. Then, as it is discovery that propels humankind forward, the endeavours in the field would be of greatest importance to humankind.

My interest in psychology at present is greatly on the psychology of cognition, and the phenomenon of induction and discovery. The term induction here may have been devised drawing from how a magnet induced its nature on iron. Similarly, the observed phenomenon induces ideas of its nature in the observer.

Yet, the mathematical view I outlined in the appended essay, suggests, the observed is one's own N-0 mathematical drive. The question then is what is the way to induce awareness of the nature of the artifact, and its operators into human awareness. Perhaps to bring to the conscious, the greatly unconscious process of induction that occurs as one engages observation in mathematics, or any field of study.

The discovery of mathematics often proceeded with the view as of mathematics as thought studying thought, of Grassmann, whose contributions to modern mathematics perhaps outweighs virtually all other mathematicians and is rather

underappreciated. Of Robert Boyle, who studied “Laws of thought.” These works indicate, in an era the study of mathematics were not a field disjunct from the study of psychology. A reading of the first few pages of Robert Boyle’s work ought convert any sceptic. Boyle’s work starts with the phrases, “ 1. The design of the following treatise is to investigate the fundamental laws of those operations of the .symbolical language of a Calculus..”

The **gestalt of mathematical expression** plausibly in aspects reflects the form-drive of the N-0 mathematical artifact, the manifold generator. When writing a mathematical series, perhaps each term is to be viewed, as a form with a awareness drive force that gives it its gestalt in cognition. There are **operator forces**, that give it its form, establish it in the awareness as a unit. In expressing the same as symbols on paper the awareness is driven by the same principles of gestalt formation. In such a mathematical expression unit - the way the “outer” operator forces interact with the gestalt unit, its inner dynamics – the deeper state of awareness that allow the induction of the sense, feeling and geometric feeling of all that on the mathematician – are perhaps keys to arriving at ideal expressions of mathematics. And endeavouring for the ideal approaches to structuring and cognition of mathematical form is nothing other than understanding and gaining familiarity with these inner gestalt drives. If that sounds far fetched, I again refer to that mathematicians as Boyle and Grassmann studied math as thought studying thought, to repeat the words of Grassmann in Die ausdehnungslehre. Einstein, who wrote of his pursuit of physics as the want to know a higher psyche, a psychological pursuit in the sense of the wish to understand, “God’s thought.” Ramanuja, who wrote, "An equation has no meaning for me unless it expresses a thought of God." Signifying the possibility that their experience of the field of mathematics and discovery, were of the mystery, and the universal psyche as well.

The Quantum physics observations suggests, it’s the ‘own’ thought-drive that forms the world.

What are these fundamental operators, and what are the gestalt-establishing functions of it? How does that map to the mathematical symbol?

These are fundamental questions – which would weave together physics, mathematics, and psychology itself as one field.

I refer the reader to the appended essay for a somewhat deeper discussion of the ideas of fundamental operations of the N-0 awareness-drive, and associated gestalt formation, as all of mathematics and physics. Well, that is all of psychology as well – just that the weight of study falls not on the symbolic expression of the rules involved – the weight falls on the psyche itself, the forces it wields, even on its ability perhaps in the meontological to falsify what appears as restraining laws in an ontology awareness.

To give simplistic example of the same – a quantum coin toss, has a probabilistic expression in the awareness drive. To what extend can the psyche leverage the probabilistic nature of the phenomenon is not the field of study of the mathematician in a strict sense, it is the study of psychology. If the individual couldn't alter parameters of the mathematical structure involved, no one would find their archery skills improving with training – the fall of the arrows on the target space would be a distribution not dependent on training. Traditions, eastern and western, have believed the awareness can train itself to leverage higher order mathematics, the seemingly fantastical and the magical.

The six core principles of Gestalt psychology, introduced by Max Wertheimer in 1923 plausibly have mathematical explanations, not that difficult to trace. For instance, the law of closure in Gestalt Psychology plausibly springs from that

"God always  
geometrizes."

-- Plato, according to  
Plutarch,

(Αεί ο θεός γεωμετρεί.)

the awareness itself is projecting the form from a set of superpositioned states. The partial form is endowed thus with the whole-impulse, as the awareness withdraws into a higher dimensional geometry-form and it tends to project by tendency and the stochastic selection, and awareness driven auto-formation nature of the projection, the whole as well.

**Mathematics is the gestalt theory of the awareness-drive itself.** An infinite series has a feeling-form interpretation as well. Each unit in the series sum a gestalt with its own inner dynamics, and feeling sense.

An understanding and awareness of the forces of gestalt formation within the psyche, beyond the 1923 theories, would go far in forming new theories of improvement of the skills of mathematical discovery, of mathematical perception, and mathematical awareness. It being new ideas, a new field that I attempt to suggest here, and given the terse nature of the essay, due to limitations in the details of discussion such a format allows, I struggle to find an accurate expression of the possibilities that I intent to suggest. A detailed discussion perhaps would need to go far into quantum physics, the plausible nature of the awareness drive as suggested by quantum phenomenon, and so on. Not that I have a fully formed theory of all that at own disposal while I write this, at present, either.

At the frontiers, **technology is now driven by thought** signals itself. <https://lsa.umich.edu/psych/news-events/all-news/graduate-news/mind-control-gaming-isn-t-sci-fi-it-s-just-science.html> . It is easy to use AI to train a neural network to identify in a EEG pattern an impulse to a particular action. Even images of what the brain is visualizing can be formed with sufficiently trained neural networks. <https://medium.com/neuromation-blog/can-a-neural-network-read-your-mind-5d3901e1dd19>, <https://www.science.org/content/article/ai-re-creates-what-people-see-reading-their-brain-scans> . As this technology revolves merely around training neural networks on EEG data, the technological aspect and its implementation in itself is neither that difficult nor far fetched. For instance, a subject could be made to watch a movie, and the EEG data together used to train a neural network in real time, mapping EEG to the movie images. Yet, a technological something much more amazing could appear in the future with advancements in



quantum physics – where the awareness training in the Jedi sense plays a great role in wielding greater forms of technology.

As I had spoken of in the appended essay, quantum physics suggests the world is awareness driven. In the world of UFO-ology alien ships and technology is described as often almost consciousness driven – symbiotic in a deep sense. With a deeper understanding of the gestalt of the awareness drive itself, technological advancements of a symbiotic nature, I guess, would be feasible, in parallel with evolutions of quantum physics. What the tech can achieve inherently depends on what the mind can fathom – as the drive is ultimately own awareness. So in such a world, psychology could be at the forefront, even in the training of a Jedi like awareness.

This might sound like something out of star trek – yet, if humankind breaks through into advanced quantum technologies, in the future frontier, the world I just spoke of,

where **depth of force over own psychology defines human ability, awaits**. In the mythos, that has always been the case. The mythic tale of Hercules, the destruction of the thousand headed ego complex, and what not, defined the human ability; and achievement in the great psychological tasks as of Hercules, even secured for the worthy Individual an earned position amidst the celestials .

Developing such tech where the awareness drives the technology would also be perhaps the only way to prevent a dull death by decision making AI, which virtually replaces human decision making and thus displaces life itself. Psychology and training of the psyche toward that all could play a role in such a paradigm, and psychology as a field offers **a world of fantasy**, for those interested in frontier possibilities.

Even though my goal greatly as of now is a deep understanding of **cognitive psychology**, in the context of mathematical discovery and the induction principle in discovery, **and an overall understanding of the field of psychology as a foundation toward that** – I also believe, psychology is set to play a great role when humans breakthrough into awareness driven, quantum models of technology, and, in a way adds to what sparks

my interest in the field. What is suggested is evolution of human potential. Not the evolution of machine networks that grow independent of human potential, independent of the human psyche, stifling and gradually killing it, displacing its decision making even - a paradigm of development that today the world seems driving "ahead", perhaps to even its own technological death, on.

Again reverting to a simpler idea - there is already machine-brain interfaces developed. To what extent would psychological training make a better cyborg is already a question worthy of discussion. What I suggested that a different field of progress could evolve, though, involves a different kind of technology, which is not so wired as today's ideas of machine-brain interface, into the human anatomy itself, as to make the human a cyborg. The discussion again would need to digress into quantum physics and awareness drives, and so forth.

AutoPsychological healing could as well, be driven by technology that monitors physiological and EEG datum, and those trained enough in wielding own psychological apparatus, could guided by technological feedback take themselves into a healing void, or zero point, a state free of complexes. In that state, the machine could engage the user in joyous games etc. A simple wrist watch could have such a device embedded, and the user could guide themselves to the blissful void that while they sit and watch relaxing movies, engage video games or any good form of entertainment. Such a system even now could be integrated into gaming platforms, for instance. Individuals trained to handle their own psychological states, can psycho physically regenerate themselves, virtually, engaging a few minutes daily of video gaming activity in that void-bliss state. Psychology in different ways evokes the potential of growth in the human. The Goal of Jungian psychology for instance, were not simplistic. Individuation in the eastern traditions, has the notion of gaining independence from universe-form itself. Words which mean individuation such as Kaivalya, is written of in ancient Sanskrit manuscripts as the goal of schools of yoga. The notion of individuation-independence also implies a greater Jedi-Sway over or within the world phenomenon.

The role of psychology in organizing individual efforts, and also, needless to say enterprises, and organizations is quite well accepted. From that standpoint as well, I find an overall understanding of the field extremely valuable. One of the most critical

factors that enable the success of a firm is a grip on own psychology, and an understanding of organizational psychology. Business opportunities and ideas as self guided and AI driven education, to video games and technology of a healing sort as I just described also finds its sparks in fields of psychology. Finding customer segments, or generating customer segments through ads is psychology.

During the years I ran my business, Schonweiss, <https://ia801404.us.archive.org/10/items/schonweiss-an-outline-and-introduction/Schonweiss-%20An%20Outline%20and%20Introduction.pdf>, [https://drive.google.com/file/d/1zB6YMoPOgL7rj-n\\_TxDR\\_lkbb\\_4Fmtox/view?usp=sharing](https://drive.google.com/file/d/1zB6YMoPOgL7rj-n_TxDR_lkbb_4Fmtox/view?usp=sharing), that were a major learning. In envisioning a social media app designed for idea sharing, in its aesthetic aspects as well, psychology played a role. <https://youtu.be/OGehEhtRoBM?t=275>. Even good UI design, or envisioning an app that uplifts the world, all depends on psychology. For instance, even though it were done a dozen years ago, it is ahead of today's social media apps in the way the albums imitate the form-function of tablets, instead of the old desktop-mouse interface. Ideatter were designed to be a platform where people with similar interests can ideate, be discovered by others with similar interests, people work together on projects and so forth. If in the future, if I again take up the business endeavour, or an idea of a gaming firm as the firm, The Demented Zombie, I once pursued, and then had set aside to find time for auto didactic efforts, <https://www.youtube.com/watch?v=HRJTWLVfjcc>, <https://www.youtube.com/watch?v=bPvRWUS16Rg>, as CEO, The Demented Zombie, I believe understanding of the field of psychology would enable a strong business drive, as well as easy organizational planning, and greater efficiency in planning the endeavour with a

sense of customer fit, understanding customer psychology, investor psychology and so forth.

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# Stanford | ONLINE

Apr 1, 2018

**Dilip Rajeev**

has successfully completed

**Machine Learning**

an online non-credit course authorized by Stanford University and offered through  
Coursera



Associate Professor Andrew Ng  
Computer Science Department  
Stanford University

SOME ONLINE COURSES MAY DRAW ON MATERIAL FROM COURSES TAUGHT ON-CAMPUS BUT THEY ARE NOT EQUIVALENT TO ON-CAMPUS COURSES. THIS STATEMENT DOES NOT AFFIRM THAT THIS PARTICIPANT WAS ENROLLED AS A STUDENT AT STANFORD UNIVERSITY IN ANY WAY. IT DOES NOT CONFER A STANFORD UNIVERSITY GRADE, COURSE CREDIT OR DEGREE, AND IT DOES NOT VERIFY THE IDENTITY OF THE PARTICIPANT.

Coursera has confirmed the identity of this individual and their participation in the course.

COURSE  
CERTIFICATE



Verify at:  
<https://coursera.org/verify/VFJ2SLAM5BB7>

**coursera**

Explore ▾

What do you want



## My Courses



### Applied AI with DeepLearning

IBM Skills Network

Grade Achieved: 100%



### Machine Learning

Stanford University

Grade Achieved: 97.25%

# Verified Certificate

This is to certify that

**Dilip Rajeev**

successfully completed and received a passing grade in

**2.961.1x: Topics in Engineering Management**

a course of study offered by MITx, an online learning initiative of the Massachusetts Institute of Technology.



Verified Certificate  
Issued July 24, 2018

Valid Certificate ID  
**93bb08b135b449d1af0a47eb5f912c09**



A handwritten signature in black ink.

**Jung-Hoon Chun**

Professor of Mechanical Engineering  
Massachusetts Institute of Technology

A handwritten signature in black ink.

**Abbott Weiss**

Senior Lecturer  
Massachusetts Institute of Technology

A handwritten signature in black ink.

**Krishna Rajagopal**

Dean for Digital Learning  
Massachusetts Institute of Technology





श्रद्धावान् लभते ज्ञानम्

**AMRITA**  
**VISHWA VIDYAPEETHAM**

**U N I V E R S I T Y**

Established u/s 3 of the UGC Act 1956



hereby confers the degree of  
**Bachelor of Technology**  
in  
**Computer Science and Engineering**  
on  
**Dilip Rajeev**

for having satisfied all the requirements in May 2007, as laid down by the Academic Council  
for the award of the said Degree, with First Class,

Given on this day the 19th May, 2007,  
Under the seal of the University.



HQ: Coimbatore, India

*[Signature]*

Registrar

*[Signature]*

Sri Mata Amritanandamayi Devi  
Chancellor

*[Signature]*

Vice Chancellor

*[Signature]*

President





श्रद्धावान् लभते ज्ञानम्

# AMRITA

## VISHWA VIDYAPEETHAM

### U N I V E R S I T Y

Established u/s 3 of the UGC Act 1956

## AMRITA SCHOOL OF ENGINEERING, ETTIMADAI

### BACHELOR OF TECHNOLOGY

IN

### COMPUTER SCIENCE AND ENGINEERING

#### Grade Sheet: 2003-2007

RollNo: 0110304115

Name: Mr. Dilip Rajeev

Date of Birth: 09/10/1984

Code	Subject	Cr.	Gr.	Month & Year of Passing	Code	Subject	Cr.	Gr.	Month & Year of Passing
<b>First Semester</b>					<b>Fifth Semester</b>				
MA101	Mathematics I	4.0	B-	Dec, 2003	CS301	Internet and Java Programming	4.0	C+	Nov, 2005
PH101	Physics I	4.0	A-	Dec, 2003	CS303	Object Oriented Analysis and Design	4.0	C	Nov, 2005
AM101	Engineering Mechanics (Statics and Dynamics)	4.0	A-	Dec, 2003	CS305	Principles of Programming Languages	4.0	D	Nov, 2005
CS101	Computer Programming	2.0	A-	Dec, 2003	CS307	Digital Signal Processing	4.0	D	Nov, 2005
HU101	Communicative English I	3.0	A	Dec, 2003	CS325	Graph Theory	3.0	A	Nov, 2005
ME101	Engineering Drawing I	4.0	C	Dec, 2003	CS391	Internet and Java Programming Lab	2.0	C	Nov, 2005
CS103	Computer Programming Lab	2.0	A+	Dec, 2003	CS395	Operating Systems Lab	2.0	B+	Nov, 2005
ME103	Workshop	2.0	C	Dec, 2003	<b>Sixth Semester</b>				
<b>Second Semester</b>					CS302	Computer Networks	4.0	C	May, 2006
MA102	Mathematics II	4.0	D	Mar, 2004	CS304	Design and Analysis of Algorithms	4.0	B	May, 2006
CH102	Chemistry II	4.0	D	Mar, 2004	CS308	Theory of Computation	4.0	C+	May, 2006
EE102	Electrical Engineering	4.0	B+	Mar, 2004	CS312	Computer Graphics	4.0	C-	May, 2006
CS102	Object Oriented Programming	2.0	B	Mar, 2004	CS326	Intelligent System and Automation	3.0	C	May, 2006
HU102	Communicative English II	3.0	B	Mar, 2004	CS392	Computer Networks Lab	2.0	B+	May, 2006
ME102	Engineering Drawing II	4.0	C	Mar, 2004	CS396	Computer Graphics Lab	2.0	C+	May, 2006
CS104	Object Oriented Programming Lab	2.0	A+	Mar, 2004	<b>Seventh Semester</b>				
ME104	Workshop	2.0	B	Mar, 2004	CS401	Software Engineering	4.0	C	Nov, 2006
<b>Third Semester</b>					CS403	Principles of Compiler Design	4.0	C+	Nov, 2006
MA201	Mathematics III	4.0	B	Oct, 2004	CS421	Distributed Computing	4.0	C+	Nov, 2006
EC205	Electronic Devices and Circuits	4.0	B	Oct, 2004	HU401	Engineering Management I	3.0	C-	Nov, 2006
EC207	Digital Electronics	4.0	B	Oct, 2004	CS491	Principles of Compiler Design Lab	2.0	A-	Nov, 2006
CS201	Data Structures	4.0	A-	Oct, 2004	CS499	Project Phase I	2.0	A-	Nov, 2006
CS203	Computer System Architecture	4.0	B	Oct, 2004	CS427	Mobile Computing	4.0	C+	Nov, 2006
CS205	Database Management Systems	4.0	A-	Oct, 2004	<b>Eighth Semester</b>				
CS251	Data Structures Lab	2.0	A	Oct, 2004	IT434	Pattern Recognition	3.0	C	Apr, 2007
CS253	Database Management Systems Lab	2.0	A-	Oct, 2004	CS438	Computer Vision	3.0	C+	Apr, 2007
<b>Fourth Semester</b>					CS402	Software Project Management	3.0	C-	Apr, 2007
MA202	Mathematics IV	4.0	C-	Apr, 2005	CS499II	Project Phase II	6.0	C	Apr, 2007
HU202	Environmental Science and Engineering	4.0	B	Apr, 2005					
MA204	Discrete Mathematics	4.0	C	Apr, 2005					
EC210	Microprocessors and Microcontrollers	4.0	C-	Apr, 2005					
CS202	Operating Systems	4.0	D	Apr, 2005					
CS204	System Software	4.0	B-	Apr, 2005					
CS254	System Software Lab	2.0	A-	Apr, 2005					
EC256	Microprocessors Lab	2.0	B+	Apr, 2005					

#### Summary: Grade Point Average (GPA) on a 10 Point Scale

Semester	1	2	3	4	5	6	7	8
Semester GPA	8.10	6.89	8.32	6.43	6.43	6.48	6.72	6.00

The cumulative grade point average of the candidate (CGPA) is **7.00**

Date Issued On: 18/05/2007

Controller of Examinations







क्रम संख्या/ 2002 088533  
S.No.SSCE/

# केन्द्रीय माध्यमिक शिक्षा बोर्ड Central Board of Secondary Education



सीनियर स्कूल सर्टिफिकेट परीक्षा, 2002

ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION, 2002

यह प्रमाणित किया जाता है कि

This is to certify that **DILIP RAJEEV**

अनुक्रमांक

Roll No. 4221395

आत्मज/आत्मजा श्रीमती

Son/Daughter of Smt. **GEETHA RAJEEV**

एवं श्री

& Shri **V RAJEEV**

ने बोर्ड द्वारा मार्च, 2002 में आयोजित सीनियर स्कूल सर्टिफिकेट परीक्षा

passed the Senior School Certificate Examination of the Board held in March, 2002

विद्यालय से

from **SARASWATHI VIDYALAYA VATTIYDORKAVU TRIVANDRUM KL**

निम्न विषयों में उत्तीर्ण की :

in the following subjects :

1 ENGLISH CORE

2 MATHEMATICS

3 PHYSICS

4 CHEMISTRY

5 COMPUTER SCIENCE

6 WORK EXPERIENCE

7 PHY & HEALTH EDUCA 8 GENERAL STUDIES

दिल्ली

Delhi

दिनांक

Dated **23-05-2002**

(Pavnesk Kumar)

परीक्षा नियंत्रक

Controller of Examinations

\* जिस विषय के आगे अंकित है, वह विषय परीक्षार्थी ने पूरक परीक्षा में उत्तीर्ण किया है।

\* against a subject indicates that the candidate passed in the subject at the Compartmental Examination.



क्रमांक  
S.I. 2002

044220

केन्द्रीय माध्यमिक शिक्षा बोर्ड  
CENTRAL BOARD OF SECONDARY EDUCATION  
अंक विवरणिका MARKS STATEMENT  
सीनियर स्कूल सर्टिफिकेट परीक्षा, 2002

ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION, 2002

नाम Name **DILIP RAJEEV**

अनुक्रमांक Roll No. **4221395**

माता का नाम Mother's Name **GEETHA RAJEEV**

पिता का नाम Father's Name **V RAJEEV**

विद्यालय School **6618 SARASWATHI VIDYALAYA VATTIYOORKAVU TRIVANDRUM KL**

विषय कोड SUB. CODE	विषय SUBJECT	प्राप्तांक MARKS OBTAINED				स्थितीय ग्रेड POSITIONAL GRADE
		लि. TH	प्रे. PR	योग TOTAL	योग शब्दों में TOTAL IN WORDS	
301	ENGLISH CORE	081	XXX	081	EIGHTY ONE	A1
041	MATHEMATICS	055	XXX	055	FIFTY FIVE	C1
042	PHYSICS	042	030	072	SEVENTY TWO	B1
043	CHEMISTRY	046	030	076	SEVENTY SIX	A2
083	COMPUTER SCIENCE	060	028	088	EIGHTY EIGHT	A2
500	WORK EXPERIENCE					C2
502	PHY & HEALTH EDUCA					D1
503	GENERAL STUDIES					D2

संक्षिप्तियों का अर्थ : Abbreviations

AB : विषय में अनुपस्थित Absent in the Subject

EX : छूट - प्राप्त Exempted

FP : प्रयोगात्मक में असफल Fail in Practical

FT : लिखित में असफल Fail in Theory

दिल्ली Delhi  
दिनांक Dated

23-05-2002

परिणाम Result

**PASS**

परीक्षा नियंत्रक  
Controller of Examinations

नोट : परीक्षार्थी को निर्गत करने के पूर्व विद्यालय के प्रधानाचार्य द्वारा यह प्रमाणपत्र प्रतिहस्ताक्षरित किया जाए।

Note : This certificate shall be countersigned by the Principal of the School before issue to the candidate.

प्रधानाचार्य के हस्ताक्षर  
Signature of the Principal



प्रधानाचार्य का नाम  
Name of the Principal

E. JAYALEKSHMI  
PRINCIPAL  
Saraswathi Vidyalaya

तिथि

Date

25-06-2002

विद्यालय की मोहर

Rubber Stamp of the School





केन्द्रीय माध्यमिक शिक्षा बोर्ड  
**CENTRAL BOARD OF SECONDARY EDUCATION**

SCH CODE : 6618

क्रम सं. स्थाना

S. NO. Mig / 2001 254424



स्थानान्तरण प्रमाण पत्र  
**MIGRATION CERTIFICATE**

प्रमाणित किया जाता है कि  
This is to certify that

**DILIP RAJEEV**

अनुक्रमांक

Roll No. 4221395

आत्मज/आत्मजा श्रीमती

Son/Daughter of Smt. **GEETHA RAJEEV**

एवं श्री

and Shri

**V RAJEEV**

Student of

**SARASWATHI VIDYALAYA VATTIYOORKAVU TRIVANDRUM KL**

के छात्र जो कि बोर्ड द्वारा मान्यता प्राप्त है ने बोर्ड की

an institution affiliated with the Board has been registered in the

**ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION 2002**

उसके द्वारा किसी भी मान्यता प्राप्त महाविद्यालय/संस्था में प्रवेश करने अथवा विधि द्वारा मान्य किया भी विश्वविद्यालय या अन्य बोर्ड की प्रस्ताव देने में बोर्ड को कोई आपत्ति नहीं है।

This Board has no objection in his/her joining any recognised College/Institute or taking examination of any University or Board established by law.

दिल्ली /CHENNAI

Delhi

दिनांक 17-04-2002

Dated

Deputy  
Central Board of Secondary Education  
Regional Asstt. Secretary



**COUNCIL FOR THE INDIAN SCHOOL CERTIFICATE EXAMINATIONS, NEW DELHI**

**No. TW 6415245**



**19203**

**PASS CERTIFICATE**

**Certified that DILIP RAJEEV**

**Index Number T/323/019**

**of SARVODAYA VIDYALAYA, THIRUVANANTHAPURAM**

**was awarded an**

**INDIAN CERTIFICATE OF SECONDARY EDUCATION**

The candidate reached at least grade 7 in **SIX** subjects of the External Examination and at least grade D in the subject of Internal Assessment as given below:

**SUBJECTS**

**External Examination**

**ENGLISH  
MALAYALAM  
HISTORY CIVICS & GEOGRAPHY  
MATHEMATICS  
SCIENCE  
COMPUTER SCIENCE**

**Internal Assessment**

**SUPW & COMMUNITY SERVICE**

**Grade**

**2 TWO  
3 THREE  
2 TWO  
1 ONE  
2 TWO  
1 ONE**

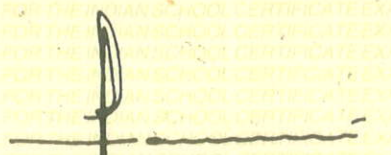
**C**

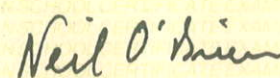
**EXAMINATION OF MARCH 2000**

Date of birth as certified by the Principal  
of the School at the time of entry

**09.10.1984**

**No divisions are awarded**

  
**Chief Executive & Secretary  
Council for the Indian  
School Certificate Examinations**

  
**Chairman  
Council for the Indian  
School Certificate Examinations**

**(See Overleaf)**



COUNCIL FOR THE INDIAN SCHOOL CERTIFICATE EXAMINATIONS, NEW DELHI  
INDIAN CERTIFICATE OF SECONDARY EDUCATION EXAMINATION 2000

No. TW 3419150



STATEMENT OF MARKS

Name DILIP RAJEEV

Index No. T/323/019

of SARVODAYA VIDYALAYA, THIRUVANANTHAPURAM

SUBJECTS

External Examination

ENGLISH

MALAYALAM

HISTORY CIVICS & GEOGRAPHY (HCS-A, GEO-B)

MATHEMATICS

SCIENCE (PHY-B, CHE-A, BIO-A)

COMPUTER SCIENCE

PERCENTAGE MARKS

80	EIGHT ZERO
76	SEVEN SIX
83	EIGHT THREE
90	NINE ZERO
88	EIGHT EIGHT
94	NINE FOUR

GRADE

Internal Assessment

SUPW & COMMUNITY SERVICE

C

Date of Birth 09.10.1984

RESULT — PASS CERTIFICATE AWARDED

Note 1. The pass mark for each subject is 35%

2. No divisions are awarded.

(See Overleaf)

Chief Executive & Secretary



## EXPLANATORY NOTE

### 1. EXTERNAL EXAMINATION

Attainment in a subject is indicated by a percentage mark.

### II. INTERNAL ASSESSMENT

The standard attained in Socially Useful Productive Work & Community Service, abbreviated on the face of the Statement of Marks as SUPW & COMMUNITY SERVICE, is indicated by a letter grade, of which Grade A is the highest and Grade E the lowest. The interpretation of the grades is as follows :

<i>Grade</i>	<i>Standard</i>	<i>Grade</i>	<i>Standard</i>	<i>Grade</i>	<i>Standard</i>
A	Very Good	C	Satisfactory	E	Fail
B	Good	D	Fair		

Awards and conditions for awards.

**PASS CERTIFICATES** will be awarded to candidates who attain the pass percentage in at least five subjects which must include the subject English.

Provided that no candidate, except as otherwise exempted by the Council, shall be awarded a Pass Certificate unless in addition to fulfilling the conditions above he has attained a pass grade in SUPW and Community Service as examined / assessed internally by the School.

(Y 2000 R)

### Bio-data

<u>Name</u>	:	Dilip Rajeev
<u>Age</u>	:	15 Yrs.
<u>Date of Birth</u>	:	09 <sup>th</sup> October 1984
<u>Sex</u>	:	Male
<u>Father's Name</u>	:	V. Rajeev
<u>Address</u>	:	Dilip Rajeev "Uthamam" 93, LIC Lane Pattom Trivandrum-6950004
<u>Phone</u>	:	(0471) 541718
<u>Details of Previous study</u>	:	From Class I to Class 10 in "Sarvodaya Vidyalaya Nalanchira, Trivandrum-15" (During the period May 1990 to March 2000)
<u>Exam Passed</u>	:	10 <sup>th</sup> Standard ICSE Exam.
<u>Marks Obtained</u>	:	511/600 ; 85.16%
<u>Class to which admission is sought</u>	:	11 <sup>th</sup> Standard
<u>School to which admission is sought</u>	:	Kendriya Vidyalaya, Pattom, Trivandrum-695004
<u>Group for which admission is sought</u>	:	Computer Science, Maths, Physics & Chemistry.
<u>Application Registration Number in Kendriya Vidyalaya, Pattom</u>	:	042



# algorithm

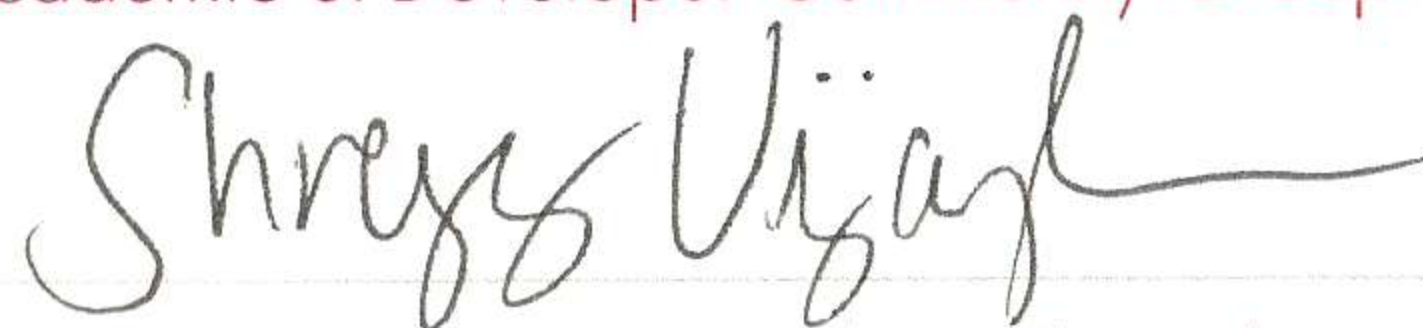
this certificate is presented to

## Dilip Rajeev

in recognition of a semi-finalist finish in  
the ALGORITHM INVITATIONAL of the 2005 Imagine Cup Competition



Gerardo Dada, Director  
Academic & Developer Community Group



Shreyas Vijaykumar, Technical Product Manager  
Academic & Developer Community Group



sponsored by **Microsoft**



## Test Report Form

ACADEMIC

**NOTE** Admission to undergraduate and post graduate courses should be based on the ACADEMIC Reading and Writing Modules.  
GENERAL TRAINING Reading and Writing Modules are **not** designed to test the full range of language skills required for academic purposes.  
It is recommended that the candidate's language ability as indicated in this Test Report Form be re-assessed **after two years** from the date of the test.

Centre Number

IA008

Date

15/MAY/2023

Candidate Number

007980

## Candidate Details

Family Name

RAJEEV

First Name

DILIP

Candidate ID

S4167928

UKVI Number

IEL/15052023/IA008/007980



Date of Birth

09/10/1984

Sex (M/F)

M

Scheme Code

Private Candidate

Country or Region  
of OriginCountry of  
Nationality

INDIA

First Language

MALAYALAM

## Test Results

Listening

9.0

Reading

9.0

Writing

7.5

Speaking

8.0

Overall  
Band  
Score

8.5

CEFR  
Level

C2

## Administrator Comments

## Centre stamp



## Validation stamp

Administrator's  
Signature

Date

17/05/2023

Test Report Form  
Number

23IA007980RAJD008A

Ref. No. : A-M/473  
July 17<sup>th</sup>, 2003

Dear Dilip Rajeev,

Congratulations on the excellent score achieved in the mensa test taken by you recently.

Your percentile rank on this test was 99, i.e. you are among the top less than 1st percentile of the population and are now **eligible** for membership of mensa bangalore, mensa india and/or mensa international.

It is imperative that you now become a member and keep it current by paying local chapter fees. At each mensa chapter, please note that the membership fees, rules & regulations, activities, Special Interest Groups, meetings, events etc., may differ depending on the types of membership.

For mensa, the current annual subscription for membership is Rs. 200/- per calendar year, currently ending DEC 2003. You may pay this by cash at the next meeting. Or send by cheque/DD - (Please add Rs. 20/- extra, ie. Rs. 220/-) in the name of 'mensa bangalore' - to the above address.

In addition, depending on 'the event', 'host', 'premises charges' and 'acceptance' a further per-meeting charge will have to be paid by you at each meet. Typically Rs. 50/- to Rs. 150/-, once a month, at a venue such as St. Joseph's Boys High School, typically on the first Saturday afternoon of every month. A mensa India newsletter and a Yahoo Groups, activity is in place. (Send request to mensa@hri.net). Please keep in touch with the internet website at [www.in.mensa.org/bangalore](http://www.in.mensa.org/bangalore) for more information.

We have kept fees and other payments to a minimum, to facilitate maximum participation and request you to regularly attend all mensa member activity. We also request your personal active involvement in getting others to take the mensa test and increase our numbers.

You will receive regular email notification, including mensa meetings. All correspondence after this, will be only by email at [dilip\\_rajeev@msn.com](mailto:dilip_rajeev@msn.com). If you desire an alternate mode such as phone or post, you must communicate this to us in writing.

Yours sincerely,  
for mensa international



Casper Abraham  
mensa international, Testing Authority  
mensa india, Convening National Committee Member  
mensa bangalore, Founder Member & Current Chairman

SSN:\*\*\*\*\*

Student No:E11119935

Date of Birth: 09-OCT

Date Issued:17-FEB-2025 OFFICIAL

Record of : Dilip Rajeev

Current Name:Dilip Rajeev

Course Level : Graduate

Subj	No.	Title	Cred	Grade	Pts	R
------	-----	-------	------	-------	-----	---

**INSTITUTION CREDIT:**

**Spring 2020**

MA	701	Mathematical Proofs	3.00	A	12.00
----	-----	---------------------	------	---	-------

Earned Hrs	GPA-Hrs	QPts	GPA
3.00	3.00	12.00	4.00

Good Standing

**Summer 2020**

MA	734	Complex Variables	3.00	A	12.00
----	-----	-------------------	------	---	-------

Earned Hrs	GPA-Hrs	QPts	GPA
3.00	3.00	12.00	4.00

Good Standing

**Fall 2020**

MA	746	Computational Algebraic Geom	0.00	W	0.00
----	-----	------------------------------	------	---	------

Earned Hrs	GPA-Hrs	QPts	GPA
0.00	0.00	0.00	0.00

Good Standing

Last Standing:Good Standing

Transcript Totals	Earned Hrs	GPA Hrs	Points	GPA
TOTAL INSTITUTION	6.00	6.00	24.00	4.00
TOTAL TRANSFER	0.00	0.00	0.00	0.00
OVERALL	6.00	6.00	24.00	4.00

-----END OF TRANSCRIPT-----

**K**indly note that I had withdrawn from the Computational Algebraic

Geometry course, only due to the time management issues during the covid era.